

1984 Campbell River Zooplankton Samples

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Les numéros 1 à 25 de cette série ont été publiés à titre de relevés statistiques, Services des pêches et de la mer. Les numéros 26 à 160 ont été publiés à titre de rapports statistiques du Service des pêches et de la mer, ministère des Pêches et de l'Environnement. Le nom actuel de la série a été établi lors de la parution du numéro 161.

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ABSTRACT

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In 1984, 293 zooplankton samples were collected from Campbell River estuary and Discovery Passage using dual miller nets. These samples have been counted to major taxa and sorted by station and arranged chronologically. These data are presented here.

RÉSUMÉ

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En 1984, 293 échantillons de zooplancton ont été recueillis dans l'estuaire de la rivière Campbell et le passage Discovery à l'aide de filets jumelés Miller. Les principaux taxons ont été comptés, triés selon la station et regroupés chronologiquement. Ces données font l'objet du présent document.

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INTRODUCTION

The Campbell River estuary is located on the eastern shore of Vancouver Island at latitude 50°03' north and longitude 125°15' west. In March of 1981 an agreement was reached between British Columbia Forests Products and the fisheries agencies on the location for a dry land sort and a bundle boom pond within the estuary. A key component of the project was the clean up of the old booming ground and the construction of five islands within the estuary (Brownlee et al. 1984).

As a result of these rehabilitative activities in the estuary a detailed evaluation of the biological response to these physical changes was undertaken. Studies of water quality, currents and salt wedge intrusion, vegetation, benthic communities, epibenthic and planktonic communities, and salmonid utilization were initiated. The Campbell River project was begun to evaluate the colonization of the new islands and their subsequent utilization by juvenile salmonids (Brown et al. 1984).

In conjunction with beach seining, the food available to the juvenile salmon in the pelagic communities was assessed. Two hundred ninety three zooplankton samples were collected and analyzed and these data are presented here.

MATERIALS AND METHODS

The zooplankton samples were collected from January to September 1984 during 17 sampling trips (Table 1). There were 4 stations in the estuarine, 3 in the transition and 2 in the marine zone (Table 2; Fig. 1,2).

Miller nets were used to sample the zooplankton communities (Miller, 1961). The micro net had a mouth diameter of 3.6 cm and a 100 μ net while the macro net had a mouth diameter of 11.3 cm and a 350 μ net. The nets were towed for 10 minutes at approximately 2 MS^{-1} , and the volume filtered was determined by using a flow meter and tow duration.

The samples were preserved in 10% formalin and rose bengal. They were counted to major taxonomic group (Table 3) in the lab using an M5 dissecting microscope. One hundred harpacticoids and calanoid copepods were picked and placed into vials for later identification to species where possible.

The data has been arranged chronologically and sorted by station, zone and net size producing 6 tables of raw counts (Tables 4-9). The data were then corrected by the volume filtered to get counts M-3. These are presented in tables 10-15. The first page of each table lists the date, time (PST), station, net type, tide type and height (M) temperature (°C), salinity (‰) and volume filtered (M³). The counts and numbers M-3 begin on the first page and continue onto the second page of each table.

ACKNOWLEDGMENTS

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- Brownlee, M. J., E. R. Mattice and C. D. Levings. 1984. The Campbell River Estuary: a report on the design, construction and preliminary follow-up study findings of intertidal marsh islands created for purposes of estuarine rehabilitation. Can. MS Rep. Fish. Aquat. Sci. 1789: 54 p., 11 Appendices.
- Miller, D. 1961. A modification of the small Hardy Plankton Indicator for simultaneous high speed plankton hauls. Bull. Mar. Ecol. Vol. V, No. 45, pp. 165-172.

Table 1. Trip dates.

Trip number	Date
1	Jan 9-11
2	Feb 6-8
3	Mar 7-9
4	Mar 20-21
5	April 3-5
6	April 16-18
7	April 24-28
8	May 1-4
9	May 14-17
10	June 4-6
11	June 18-21
12	July 3-6
13	July 17-19
14	July 31-Aug 2
15	Aug 14-16
16	Aug 28-30
17	Sept 25-27

Table 2. Station descriptions.

Station number	Station description
Estuarine	
1	Mother ramp sampled at 0-1 M
7	North Baikie mouth sampled at 0-1 M
15	Island #3 sampled at 0-1 M
371	Log sort sampled at 0-1 M
372	Log sort sampled at 3-4 M
Transition	
20	Boat ramp sampled at 0-1 M
21	McDonalds sampled at 0-1 M
34	Painters channel sampled at 0-1 M
Marine	
27	Outer Gowlland sampled at 0-1 M
31	Plumper Bay sampled at 0-1 M

Table 3. Table abbreviations.

Date	Date
Time	Time PST
Stn	Station
Stype	Sample type - Macro or Micro net
Tide	Tide - ebb or flood and tide height in meters
Temp	Temperature °C
Sal	Salinity ‰
Vol	Volume filtered (m ³)
Harp	Harpacticoid copepods
Cnaup	Copepod nauplii
Nema	Nematodes
Cal	Calanoid copepods
Worm	Worms
Ost	Ostracods
Acar	Acarinans
Egg	Unidentified eggs
Tuni	Tunicates
Amp	Amphipods
Gast	Gastropods
Ecto	Ectoprocts
Bnaup	Barnacle nauplii
G.egg	Gastropod eggs
Mysid	Mysids
Clad	Cladocerans
Isopo	Isopods
I.lar	Insect larvae
Bvalv	Bivalves
Chaet	Chaetognaths
Eup	Euphausiids
Cuma	Cumaceans
D.Zoe	Decapod zoea
Fish	Fish
P.cop	Parasitic copepods
Poly	Polychaetes
E.lar	Echinoderm larvae
Medus	Medusae
Deca	Decapods
B.cyp	Barnacle cypris
Tena	Ctenophores
Hydra	Hydroids
Siph	Siphonophores
C.meg	Crab megalops
Insct	Insects
Chitn	Chitons
Tanad	Tanaidaceans
Tarda	Tardigrades

Table 4. Estuarine macro net raw counts

DATE	TIME	STN	STYPE	TIDE	TEMP	SAL	VOL	HARP	CHAUP	NEMA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAUP	
840110	1143	1	MAC E4.1	4.3	0.8	9.26	0	0	0	0	0	0	0	0	1	0	0	5	0	0	0
840308	904	1	MAC E3.8	4.4	1.1	11.00	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0
840321	938	1	MAC E3.7	0.0	0.0	6.53	0	0	0	0	9	0	0	0	0	2	0	0	1	2	2
840405	1146	1	MAC E1.8	7.5	1.7	8.70	0	0	0	0	2	0	0	0	0	0	0	0	0	6	0
840417	1749	1	MAC F3.7	7.3	2.5	9.16	0	0	0	0	15	0	0	0	1	0	1	2	8	0	0
840504	1023	1	MAC E1.8	9.2	6.4	9.16	8	1	0	0	11	0	0	0	2	0	1	0	29	0	0
840515	1645	1	MAC F4.2	10.6	1.6	10.06	6	0	0	0	1	0	0	0	11	0	0	0	6	0	0
840606	746	1	MAC F3.0	11.7	5.0	8.73	0	1	0	0	25	0	0	1	21	2	0	0	0	0	0
840621	1343	1	MAC E2.5	16.1	5.9	8.92	4	18	1	0	2	0	0	0	5	1	0	0	0	0	0
840705	947	1	MAC F3.2	14.1	1.7	8.37	1	0	0	0	2	0	0	0	3	0	0	0	0	0	0
840718	1747	1	MAC F2.9	16.2	0.5	10.62	15	1	0	0	3	0	0	0	6	0	1	0	0	0	0
840802	937	1	MAC E3.1	16.5	2.4	9.73	0	0	0	0	2	0	0	0	28	0	0	0	0	0	2
840816	812	1	MAC E3.3	15.5	3.1	9.70	0	0	0	0	2	0	0	0	5	0	1	1	0	0	0
840830	758	1	MAC E3.6	15.0	2.8	7.97	1	0	0	0	1	0	0	0	0	0	1	0	0	2	0
840925	1654	1	MAC F4.3	14.3	4.1	8.39	2	1	1	1	11	0	0	2	0	0	0	1	0	0	0
840110	1109	7	MAC E4.3	4.8	0.0	10.39	0	0	0	0	2	0	1	0	7	0	10	0	0	0	0
840308	806	7	MAC E4.1	3.7	0.2	9.35	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
840321	817	7	MAC E4.2	0.0	0.0	6.76	1	0	0	0	2	0	0	0	0	0	3	0	0	0	0
840405	1125	7	MAC E1.9	7.4	1.0	10.73	1	0	0	0	4	0	0	0	1	0	5	0	5	0	0
840416	1732	7	MAC F4.1	7.3	0.9	8.52	0	0	0	0	0	0	0	0	0	0	2	0	4	0	0
840504	919	7	MAC E2.4	8.7	8.7	9.21	18	0	0	2	15	0	0	5	24	2	7	2	48	0	0
840516	1633	7	MAC F3.5	9.7	1.1	11.04	5	3	0	0	18	0	0	0	94	1	1	0	4	2	2
840606	835	7	MAC F3.1	11.4	2.2	8.41	0	0	0	0	2	0	0	1	76	0	0	0	0	0	0
840621	1114	7	MAC E2.9	16.2	1.5	8.32	6	10	0	0	9	0	0	0	6	3	0	0	0	0	3
840704	836	7	MAC E3.3	13.7	2.5	9.65	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
840719	843	7	MAC F3.1	15.6	1.9	8.36	18	40	0	23	2	2	0	1	0	0	0	0	0	0	0
840801	1436	7	MAC F1.7	17.1	1.2	9.21	50	50	14	11	0	0	1	1	8	0	27	1	0	0	0
840816	726	7	MAC F3.4	15.5	1.5	9.21	0	0	0	0	0	0	0	0	3	0	2	0	0	0	0
840830	933	7	MAC E3.2	15.2	0.8	8.05	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0
840925	1417	7	MAC F2.8	14.8	0.5	8.38	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0
840110	1123	15	MAC E4.2	4.2	3.0	10.21	1	0	0	0	27	0	0	0	9	0	24	0	0	0	0
840308	821	15	MAC E4.0	4.0	1.1	10.44	0	0	0	0	4	0	0	0	0	0	9	0	0	0	0
840321	831	15	MAC E4.1	0.0	0.0	7.02	0	0	0	0	89	0	0	0	2	5	9	0	3	13	0
840405	1102	15	MAC E2.1	6.6	0.4	9.24	1	2	0	0	32	0	0	0	5	1	55	1	49	0	0
840416	1749	15	MAC F4.1	7.1	2.0	9.90	7	0	0	0	68	0	0	2	1	0	4	0	22	0	0

0.696	HTSID	CLAD	ISOPD	I.LAR	BVALV	CHMET	EUP	D.ZOE	FISH	P.COOP	POLY	MEDUS	B.CYP	TBW	SIPH	HYDRA
0	0	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	2	0	0	0	0	5	0	0	0	0	0	0	0	0
1	0	0	8	0	0	0	0	6	5	0	0	0	0	0	0	0
0	0	5	1	1	0	0	0	0	10	0	0	0	0	0	0	0
3	0	4	0	0	0	0	0	2	0	0	0	0	0	0	0	0
7	0	96	0	1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	110	2	1	0	0	0	0	0	0	0	0	0	0	1	2
3	0	248	0	0	0	0	0	2	0	0	0	0	0	0	0	0
20	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	154	0	1	0	0	0	0	0	1	0	0	0	0	0	0
15	0	27	0	0	0	0	0	2	0	0	0	0	0	0	0	0
1	0	9	0	0	0	0	0	1	0	0	0	0	0	0	0	0
1	0	2	3	0	0	0	0	1	0	0	0	0	0	0	0	0
0	1	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	3	7	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	10	12	0	0	0	0	2	4	0	0	0	0	0	0	0
0	0	14	2	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	236	1	3	0	0	0	0	2	0	0	6	0	0	0	0
3	0	178	0	0	0	0	0	0	0	0	0	0	4	0	0	0
3	0	218	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	1	0	0	0	0	5	0	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	9	87	1	0	0	0	1	3	2	0	0	0	0	0	0	0
6	0	36	0	1	1	0	0	0	0	0	0	0	0	0	0	0
4	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0
0	0	50	7	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	8	0	0	0	1	0	0	0	0	0	0	0	0	0
3	0	3	11	0	0	0	0	2	0	0	0	0	0	0	1	0
8	0	29	13	0	0	0	0	4	0	0	0	0	0	0	0	0
5	0	17	0	1	0	0	0	1	0	0	0	0	0	0	0	0

DATE	TIME	STN	STYPE	TIDE	TEMP	SAL	VOL	HARP	CHALP	NEMA	CAL	MORN	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNALP	
840504	851	15	MAC	E2.6	8.8	3.6	9.24	160	0	0	256	0	0	0	0	12	0	48	0	21	0
840516	1648	15	MAC	F3.6	9.7	1.0	9.47	4	4	0	8	0	0	0	12	1160	0	0	0	0	
840606	821	15	MAC	F3.1	11.3	5.5	8.42	5	0	7	36	3	0	0	7	317	0	0	0	12	
840621	755	15	MAC	F2.6	14.1	3.3	10.80	0	0	0	19	0	0	0	0	30	0	0	0	1	
840704	852	15	MAC	E3.2	13.7	4.8	10.18	1	1	0	14	0	0	0	0	19	0	2	0	2	
840719	826	15	MAC	F3.1	15.2	2.1	10.34	3	0	0	15	0	0	0	1	6	0	0	1	0	
840802	914	15	MAC	E3.2	15.8	2.3	9.24	2	0	10	5	1	18	0	32	0	1	0	1	0	
840816	740	15	MAC	F3.4	15.1	3.9	8.88	0	0	0	3	1	0	0	0	0	0	0	0	0	
840830	919	15	MAC	E3.3	14.9	4.1	8.22	0	1	0	6	0	0	1	0	0	1	2	0	1	
840925	1435	15	MAC	F2.9	14.4	2.8	8.32	1	0	0	0	0	0	1	0	0	0	0	0	0	
840110	1157	371	MAC	E4.1	4.4	0.5	11.24	0	0	0	0	0	0	0	1	0	3	0	0	0	
840308	834	371	MAC	E4.0	4.3	0.3	10.13	0	1	0	0	0	0	0	0	0	1	0	0	0	
840321	856	371	MAC	E3.9	0.0	0.0	9.58	1	3	0	1	0	0	2	0	0	2	0	0	0	
840405	1205	371	MAC	E1.7	7.9	1.5	9.59	0	0	0	4	0	0	0	0	0	1	1	0	1	
840417	1805	371	MAC	F4.0	8.0	2.7	9.59	0	1	0	4	0	0	0	0	0	1	0	0	1	
840504	948	371	MAC	E2.1	8.2	26.9	9.59	8	0	0	4	0	0	0	1	0	0	0	2	0	
840517	710	371	MAC	E2.6	10.0	4.7	10.52	2	0	0	1	0	0	0	18	0	0	1	0	0	
840606	719	371	MAC	F2.9	11.6	4.4	6.89	16	12	12	36	1	1	2	19	6	4	1	1	5	
840621	1407	371	MAC	E2.4	17.2	6.1	8.82	0	4	2	1	0	1	0	2	0	0	0	0	0	
840705	901	371	MAC	F3.1	13.0	10.4	10.42	6	1	0	11	0	0	0	0	0	0	0	0	10	
840718	745	371	MAC	F3.0	15.1	2.9	12.16	6	0	0	0	0	1	1	0	0	0	0	0	0	
840802	956	371	MAC	E3.0	16.6	1.1	9.23	0	0	0	0	1	0	0	3	0	1	0	0	0	
840816	827	371	MAC	E3.2	15.8	2.1	9.60	0	0	0	0	0	0	0	0	0	2	0	0	0	
840830	727	371	MAC	E3.8	14.6	23.6	8.29	0	0	0	5	0	0	0	0	0	0	0	0	1	
840925	1230	371	MAC	F1.8	14.0	5.6	8.33	0	0	0	1	0	0	2	0	0	0	0	0	0	
840110	1209	372	MAC	E4.0	7.4	28.8	8.97	0	0	0	34	0	2	0	0	0	11	0	0	0	
840308	847	372	MAC	E3.9	7.5	30.1	9.73	1	0	1	57	0	0	0	0	2	7	1	1	0	
840321	912	372	MAC	E3.8	0.0	0.0	7.20	0	0	0	463	0	0	1	6	1	3	1	7	39	
840417	1817	372	MAC	F4.0	8.2	26.9	9.06	8	0	0	608	0	0	0	0	4	8	0	32	0	
840504	1004	372	MAC	E2.0	9.0	25.8	9.06	7	0	0	143	0	0	0	0	0	1	1	3	1	
840517	723	372	MAC	E2.5	9.0	27.7	8.77	0	4	0	1388	0	0	0	20	36	0	8	20	48	
840606	731	372	MAC	F3.0	9.7	30.5	7.73	2	65	0	1729	1	2	0	53	49	7	0	3	8	
840621	1420	372	MAC	E2.4	10.6	30.4	10.61	0	8	1	222	1	2	0	10	8	1	1	1	21	
840705	914	372	MAC	F3.1	11.1	28.1	9.18	0	4	0	249	1	0	2	1	0	4	1	0	3	
840719	757	372	MAC	F3.0	11.1	29.2	12.09	0	0	0	12	0	0	0	0	0	4	0	0	0	
840802	1012	372	MAC	E2.9	11.3	28.8	7.96	2	0	0	9	0	0	0	0	0	9	0	0	5	

G.EGG	MYSID	CLAD	ISOPO	I.LAR	BVALV	CHAET	EUP	D.ZOE	FISH	P.COOP	POLY	MEDUS	B.CYP	TENA	SIPH	HYDRA
60	4	264	8	4	0	0	0	20	4	0	4	8	0	0	0	0
0	0	1292	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	1261	0	0	0	0	2	10	2	0	0	0	0	0	0	0
19	0	161	0	0	0	0	4	0	1	0	0	0	0	0	0	0
19	0	45	0	1	0	0	0	1	0	0	0	2	0	0	1	0
4	0	26	0	3	0	0	0	3	0	0	0	1	0	3	0	0
31	0	170	0	1	0	0	0	0	0	0	1	0	0	0	0	0
21	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	15	0	0	0	0	0	0	0	0	0	2	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	5	1	0	0	0	0	0	1	0	0	0	0	0	0	0
1	0	1	4	0	0	0	0	1	4	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	10	0	0	0	0	0	0	1	0	0	0	0	0	1	1
0	0	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	4	0	0	0	0	1	1	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	1	3	2	0	0	0	3	1	1	0	0	0	0	0	0	0
0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0
0	0	1	15	0	0	0	157	48	1	0	0	0	0	0	0	0
0	0	1	2	0	0	0	0	180	7	0	1	0	0	0	0	0
0	12	0	0	0	0	0	0	80	40	0	0	4	0	0	0	0
0	6	1	1	0	0	1	0	0	2	0	0	0	0	0	0	0
0	0	20	0	0	0	0	0	16	0	0	0	0	0	0	0	0
2	0	0	0	0	0	2	0	14	2	0	0	0	0	0	0	0
5	0	6	0	0	0	15	15	30	0	0	0	0	0	0	1	0
8	0	2	0	0	0	0	1	32	0	0	1	2	0	44	0	0
0	0	0	0	0	0	0	0	2	0	0	0	6	0	77	1	0
0	1	1	0	0	0	0	2	9	0	0	0	7	0	405	0	0

DATE	TIME	STN	STY	TIDE	TEMP	SAL	VOL	HARP	CNAUP	NEMA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAUP	
840816	840	372	MAC	E3.1	11.5	29.9	9.56	1	0	0	13	2	0	0	0	0	0	49	2	0	2
840830	740	372	MAC	E3.7	10.9	26.4	7.92	8	1	0	35	0	0	0	0	0	0	2	1	0	9
840925	1242	372	MAC	F1.9	10.2	29.7	8.94	1	1	0	66	0	1	0	0	1	2	2	1	0	0

	G.EGG	MYSID	CLAD	ISOPO	I.LAR	BVALV	CHMET	EUP	D.ZOE	FISH	P.COP	POLY	MEDUS	B.CYP	TENA	SIPH	HYDRA
12	0	0	11	0	0	0	0	0	4	0	0	0	0	57	0	109	0
7	0	0	1	0	0	0	0	0	15	0	0	0	0	10	0	0	1
2	0	0	1	0	0	0	0	0	4	0	0	0	0	3	0	0	0

Table 5. Transition macro net raw counts

DATE	TIME	STN	STYRE	TIDE	TEMP	SAL	VOL	HARP	CNAUP	NBKA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAUP
840110	1326	20	MAC E3.7	7.9	30.6	10.51	0	1	0	73	0	35	0	1	2	0	0	0	0	0
840207	1445	20	MAC E2.7	7.7	31.5	8.23	4	0	0	63	0	13	0	19	0	0	0	0	0	0
840306	1035	20	MAC E3.3	7.7	32.1	8.47	0	0	0	64	0	0	0	21	2	0	0	0	0	0
840321	1640	20	MAC F1.9	0.0	0.0	9.94	8	0	0	1672	0	0	0	120	8	16	8	32	216	4
840405	1037	20	MAC E2.3	8.6	27.7	8.92	48	4	0	680	0	16	0	20	12	8	12	420	4	0
840417	1731	20	MAC F3.6	8.5	29.2	9.58	16	0	0	2240	0	0	0	48	80	16	0	394	0	0
840503	1125	20	MAC E1.0	10.1	25.4	9.58	2968	80	16	312	8	0	0	208	0	232	16	248	0	0
840515	1703	20	MAC E4.2	9.2	28.4	9.90	56	16	0	1552	0	64	0	472	96	0	8	160	304	0
840605	1650	20	MAC F1.6	9.8	27.5	8.76	505	1896	8	1351	2	34	0	1039	40	124	6	31	31	0
840621	920	20	MAC F2.7	10.4	30.2	8.88	6	10	0	304	0	4	0	372	24	2	2	1	36	0
840705	750	20	MAC F2.8	11.1	29.0	9.77	4	4	0	340	0	0	0	24	0	8	0	48	4	0
840716	1600	20	MAC F2.3	10.9	27.9	11.74	7	2	1	144	0	6	1	175	3	5	7	0	4	0
840802	825	20	MAC E3.5	10.4	30.5	12.44	4	1	0	168	0	6	0	5	0	18	18	0	2	0
840815	1608	20	MAC F2.5	11.5	30.4	9.06	4	1	4	76	3	4	0	306	0	97	5	0	1	0
840830	840	20	MAC E3.4	10.2	30.5	8.14	3	10	0	45	0	4	0	12	0	33	7	0	8	0
840925	1637	20	MAC F4.2	9.5	30.6	9.37	1	2	0	156	0	4	0	1	1	6	5	0	0	0
840306	959	21	MAC E3.6	7.7	31.8	9.14	1	1	0	46	1	0	0	1	7	1	1	1	0	0
840321	1535	21	MAC F1.3	0.0	0.0	8.45	76	0	0	1324	4	0	0	156	4	64	12	200	116	0
840405	942	21	MAC E2.7	8.5	27.8	8.63	109	0	0	316	0	1	0	17	4	9	2	195	6	0
840417	1710	21	MAC F3.4	8.7	28.9	8.60	28	0	0	1020	0	4	0	8	24	0	4	236	0	0
840502	1427	21	MAC F1.8	9.1	28.2	8.60	40	8	0	1008	0	0	0	24	0	24	16	184	0	0
840516	1510	21	MAC F2.6	10.7	28.4	8.60	168	0	0	4384	0	0	0	128	16	16	0	80	112	0
840605	1633	21	MAC F1.4	12.1	28.3	8.60	148	3734	86	194	152	36	2	136	28	20	2	24	8	0
840621	858	21	MAC F2.7	11.7	30.8	7.35	11	19	0	85	0	2	0	115	66	1	4	4	10	0
840705	715	21	MAC F2.7	12.4	28.8	9.22	20	242	0	32	0	2	0	26	2	4	0	4	8	0
840716	1517	21	MAC F2.0	12.8	29.1	9.38	2	2	0	8	2	1	0	14	0	1	0	1	0	0
840802	803	21	MAC F3.5	11.5	29.6	9.36	9	2	0	21	0	2	0	6	0	13	9	0	0	0
840815	1549	21	MAC F2.5	14.6	28.7	9.85	7	2	0	8	0	1	0	23	0	46	1	0	0	0
840829	755	21	MAC E3.3	10.5	31.5	7.75	4	3	0	47	0	0	0	15	0	5	3	0	16	0
840926	1105	21	MAC E2.0	10.0	29.8	6.86	7	0	0	6	0	0	0	0	0	2	0	2	0	0
840110	1229	34	MAC E4.0	4.4	4.2	9.92	2	0	0	26	0	3	0	0	0	1	7	0	0	0
840308	920	34	MAC E3.7	4.6	6.0	8.58	12	0	0	78	0	0	0	1	3	7	0	1	0	0
840405	835	34	MAC E3.2	6.5	2.5	8.76	9	0	0	49	0	0	0	2	0	1	1	33	2	0
840416	1812	34	MAC E4.1	7.3	5.1	8.94	64	4	0	972	0	0	0	8	4	8	8	128	4	0
840504	822	34	MAC E2.7	8.6	2.1	8.79	172	4	0	888	0	0	0	64	20	36	20	32	16	0

G. EGG	MYSID	CLAD	ISOPO	I. LAR	BIVALV	CHAET	EUP	CUMA	D. ZOE	FISH	P. COOP	POLY	E. LAR	MEDUS	B. CYP	TEMA	SIPH	HYDRA
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
3	0	2	0	0	0	1	1	0	3	0	0	0	0	0	0	0	1	1
8	0	27	0	0	0	0	0	0	56	3	0	0	0	0	0	0	3	1
8	0	64	0	0	0	0	0	0	144	16	0	0	0	0	0	0	24	0
64	0	0	0	1	0	0	0	0	88	12	0	0	0	0	0	0	4	0
32	0	80	0	0	0	0	48	0	96	32	0	0	0	0	0	0	16	16
16	0	0	0	24	0	0	0	0	8	0	24	0	0	0	96	0	0	0
16	8	24	0	0	0	24	80	0	64	24	0	0	8	0	0	0	8	0
111	0	154	0	0	1	5	18	0	130	3	0	12	0	1	0	0	4	1
427	0	2	0	0	0	1	27	0	89	0	0	0	52	24	0	0	13	0
472	0	0	0	0	0	0	20	0	36	0	0	0	0	0	0	84	4	0
233	0	2	0	0	0	1	2	0	25	0	1	5	1	4	0	26	9	0
100	0	0	0	0	0	0	10	0	28	0	1	5	0	44	0	108	32	0
166	0	5	1	0	0	0	2	0	9	0	0	0	0	407	0	6	7	0
369	0	0	0	0	2	0	0	0	6	0	0	1	0	11	0	1	40	0
13	0	0	0	0	1	0	1	0	3	0	1	0	0	3	0	0	17	1
5	0	10	0	0	0	0	23	1	14	1	0	0	0	0	0	0	1	0
140	0	0	0	0	0	0	4	0	52	8	0	0	0	8	8	0	0	0
172	0	2	0	0	0	0	0	2	113	17	0	0	0	0	0	0	3	0
8	8	0	0	0	0	0	0	0	56	20	0	0	0	4	0	0	0	0
64	0	8	0	0	0	0	0	0	80	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	16	16	0	0	0	0	0	0	0	0	0	0	0
1068	0	22	0	0	0	0	0	0	60	2	0	0	4	4	0	0	4	0
3215	0	16	0	0	0	1	4	0	13	0	0	0	299	18	0	0	8	0
2128	0	2	0	0	0	0	8	0	56	1	0	0	4	0	0	34	2	0
1592	0	0	0	0	0	0	0	0	3	0	0	0	0	1	0	8	2	0
359	0	1	0	0	0	0	2	0	20	0	1	1	1	13	0	34	12	0
203	0	2	0	0	0	0	0	0	0	0	0	0	0	363	0	2	0	0
207	0	2	0	0	0	0	0	0	6	0	0	1	2	34	0	1	34	0
7	0	1	0	0	0	0	0	0	2	0	1	0	0	0	0	0	5	0
0	0	17	10	0	0	0	0	48	0	0	0	0	0	0	0	0	0	0
0	0	8	66	0	0	1	4	68	21	2	0	1	0	0	0	0	0	0
12	0	6	3	0	0	0	0	6	9	4	0	0	0	0	0	0	1	0
4	0	28	0	0	0	0	4	32	0	0	0	0	0	0	0	0	0	0
212	0	84	16	0	0	0	0	28	20	8	0	4	0	0	0	0	0	0

DATE TIME	STN	STY	TIDE	TBP	SAL	VOL	HARP	CNAUP	NEMA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	QAST	ECTO	BNAUP
840515 1719	34	MAC	E4.1	9.6	6.2	9.68	200	24	0	3792	0	16	0	24	168	32	40	72	848
840606 803	34	MAC	F3.0	11.4	6.2	7.47	3	45	0	1846	0	5	0	99	285	11	2	13	26
840621 948	34	MAC	F2.8	14.8	3.9	8.79	7856	15928	11392	1040	88	192	0	296	152	8	24	0	112
840705 837	34	MAC	F3.0	13.4	2.9	8.82	8	16	0	360	0	4	0	0	0	12	0	20	8
840802 850	34	MAC	E3.4	15.9	3.7	10.98	0	0	0	5	2	0	0	2	0	2	0	0	0
840816 756	34	MAC	E3.3	15.5	3.0	8.26	3	0	0	78	0	4	0	5	0	88	4	1	1
840830 857	34	MAC	E3.3	14.2	7.4	7.72	0	0	0	16	0	0	0	4	0	2	2	0	12
840825 1422	34	MAC	F4.1	13.1	12.2	8.92	4	0	0	183	0	4	0	0	3	2	1	0	1

G.EGG	MYSID	CLAD	ISOPO	I.LAR	BVALV	CHMET	EUP	CUMA	D.ZOE	FISH	P.COOP	POLY	E.LAR	MEDUS	B.CYP	TEMA	SIPH	HYDRA
16	8	40	0	0	0	0	40	0	88	0	8	0	0	0	0	0	0	0
840	0	33	0	0	0	0	90	0	101	0	0	4	0	10	0	0	3	0
2688	0	16	0	0	16	8	160	0	40	0	0	8	16	32	0	0	0	0
368	0	32	0	0	0	0	40	0	32	0	0	0	4	8	0	184	0	0
9	0	20	0	1	0	0	0	0	2	0	1	0	0	0	0	1	0	0
113	0	7	0	0	0	0	1	0	14	0	0	1	0	74	0	5	5	0
252	0	5	0	0	0	0	0	0	5	0	0	0	0	2	0	0	1	0
9	0	0	0	2	0	0	2	0	5	0	0	0	0	1	0	0	4	0

Table 6. Marine macro net raw counts

DATE	TIME	STN	STYPE	TIDE	TBHP	SAL	VOL	HARP	CNAUP	NEMA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAUP
840110	1250	27	MAC	E3.8	7.9	30.4	8.23	0	0	0	241	1	33	0	0	1	8	1	0	0
840207	1400	27	MAC	E2.9	7.7	32.3	9.88	0	3	0	353	0	41	0	0	0	5	0	1	0
840308	936	27	MAC	E3.7	7.7	31.7	9.64	0	0	0	135	0	0	0	0	7	2	1	0	0
840321	1345	27	MAC	E1.5	9.0	0.0	8.74	20	4	0	856	20	0	0	120	12	4	4	60	224
840405	908	27	MAC	E3.0	8.0	27.7	9.89	8	0	0	1256	0	24	0	8	8	0	8	88	8
840417	1321	27	MAC	F1.0	8.5	29.3	9.56	8	40	0	1736	0	0	0	48	8	0	8	336	0
840502	1303	27	MAC	F1.0	8.9	28.7	9.56	0	0	0	3360	0	0	0	216	0	0	0	192	0
840516	1318	27	MAC	F1.4	9.9	28.8	9.56	0	8	0	3552	0	0	0	1344	0	0	8	48	320
840605	1457	27	MAC	E1.0	10.2	29.4	9.94	3	27	0	1628	0	3	0	4609	27	10	5	24	8
840621	1024	27	MAC	E1.8	10.9	31.1	9.56	40	192	12	488	0	0	0	1468	232	0	0	4	8
840704	1507	27	MAC	F1.5	13.5	28.0	11.17	0	100	0	296	0	4	0	60	8	8	0	36	0
840718	1312	27	MAC	F1.6	13.5	29.6	8.67	0	2	0	114	0	0	0	147	5	4	3	2	1
840801	1220	27	MAC	E1.7	12.3	29.7	10.34	1	1	0	399	0	0	0	13	2	33	11	0	2
840815	1304	27	MAC	E1.6	13.2	30.0	10.55	0	1	0	72	0	0	0	193	0	204	6	0	0
840829	837	27	MAC	E3.1	10.2	31.7	8.19	1	1	0	501	1	11	0	57	0	38	21	0	29
840926	1233	27	MAC	F2.1	9.5	30.9	9.47	1	2	1	73	1	3	0	2	0	7	0	1	0
840404	950	31	MAC	E2.7	8.4	27.4	9.51	0	0	0	1188	0	0	0	4	8	4	8	244	12
840417	853	31	MAC	E2.6	8.6	29.2	9.66	4	8	0	472	0	0	0	0	0	4	0	116	0
840502	925	31	MAC	E1.8	8.5	28.7	9.66	0	0	0	1324	0	0	0	40	8	36	0	116	0
840516	757	31	MAC	E1.8	9.2	28.3	9.54	8	16	0	2954	0	24	0	504	136	0	16	184	560
840605	818	31	MAC	E3.3	9.5	29.6	9.91	0	1	0	1147	0	1	1	110	4	1	2	5	1
840619	859	31	MAC	E2.8	10.7	31.3	11.62	0	0	8	1612	376	0	0	88	12	4	0	12	36
840704	949	31	MAC	E2.9	10.7	30.7	10.15	1	1	0	300	5	0	0	5	5	3	2	13	15
840718	905	31	MAC	E2.6	11.2	29.4	9.18	11	1	0	270	0	0	0	45	10	2	4	0	2
840801	932	31	MAC	E2.8	10.8	30.4	9.66	0	1	0	597	0	0	0	8	1	13	10	0	2
840815	842	31	MAC	E2.9	10.3	31.5	9.46	3	0	0	174	0	1	0	74	0	13	1	1	4
840829	1032	31	MAC	E2.3	10.3	31.7	7.94	1	0	0	347	0	6	0	7	0	8	11	0	12

G.EGG	WYSID	CLAD	ISOPO	I.LAR	BVALV	CHMET	EUP	CUMA	D.ZOE	FISH	POLY	E.LAR	MEDUS	B.CYP	TBM	SIPH	HYDRA	TANAD
0	0	0	2	0	0	0	1	5	2	7	2	0	0	1	0	0	0	0
0	0	0	0	0	0	0	0	0	9	1	2	0	0	2	0	9	0	0
0	0	5	0	0	0	0	0	2	51	0	2	0	0	0	0	3	0	0
8	0	28	0	0	0	4	32	0	140	0	12	0	0	0	0	4	0	0
72	16	8	0	0	0	0	0	0	112	24	0	0	0	0	0	8	0	0
8	0	8	0	0	0	0	16	0	112	0	0	0	8	0	0	16	0	0
0	0	16	0	0	0	0	0	0	160	16	15	0	0	0	0	48	0	0
32	0	48	0	0	0	8	64	0	64	8	8	16	0	0	0	0	0	0
19	0	2	0	0	0	3	44	0	100	0	0	0	6	0	0	0	0	0
390	0	0	0	0	0	0	24	0	28	0	0	60	20	0	0	12	0	0
4	0	4	0	4	0	0	188	0	184	16	8	16	0	4	484	16	0	0
30	0	0	0	0	0	0	0	0	5	0	5	0	6	0	3	7	0	0
31	0	1	0	0	0	4	54	0	51	1	0	4	134	0	196	18	0	0
10	0	2	0	0	0	2	0	0	11	3	2	1	577	0	49	5	0	0
43	0	3	2	0	0	3	0	0	32	0	8	0	20	0	9	51	0	0
1	0	0	0	0	1	0	0	0	3	0	0	0	1	0	0	28	1	0
8	0	0	0	0	0	0	0	0	124	4	0	0	0	0	0	20	0	0
24	0	0	0	4	0	0	0	0	56	0	0	0	0	0	0	0	0	0
28	0	4	0	0	0	0	36	0	52	4	0	0	0	0	0	4	0	8
8	0	0	0	0	0	8	112	0	72	0	0	16	8	8	0	0	0	0
42	0	2	0	0	0	2	24	1	29	0	0	1	6	0	0	5	0	0
36	0	0	0	0	0	0	0	0	4	0	0	24	4	0	0	0	0	0
50	0	17	0	0	0	1	66	0	11	0	5	2	3	0	122	53	0	0
35	0	0	0	0	0	0	3	0	4	0	0	0	10	0	11	3	0	0
20	0	0	0	0	0	4	103	0	10	0	0	2	88	0	120	8	0	0
9	0	0	0	0	0	2	0	0	6	0	1	0	11	0	14	3	0	0
13	0	1	0	0	0	3	0	0	16	0	0	0	5	0	4	20	0	0

Table 7. Estuarine micro net raw counts

DATE TIME	STN	STYPE	TIDE	TEMP	SAL	VOL	HARP	CHLUP	NEMA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAUP
840110 1143	1	MIC	E4.1	4.3	0.6	0.93	0	42	0	15	0	0	0	1	3	0	0	0	0
840207 1730	1	MIC	F2.6	3.9	1.4	1.03	3	149	1	23	0	0	0	2	7	0	1	1	0
840308 904	1	MIC	E3.8	4.4	1.1	1.10	12	119	0	19	0	0	0	0	12	0	0	1	0
840321 930	1	MIC	E3.7	0.0	0.0	0.55	5	50	0	25	0	0	1	0	6	0	0	2	6
840405 1146	1	MIC	E1.8	7.5	1.7	0.87	16	33	0	26	0	0	0	0	2	0	0	11	14
840417 1749	1	MIC	F3.7	7.3	2.5	0.92	4	214	0	294	0	0	0	6	12	4	0	1	25
840504 1023	1	MIC	E1.8	9.2	6.4	0.92	6	104	0	164	1	0	0	0	4	0	0	12	24
840515 1645	1	MIC	F4.2	10.6	1.6	1.01	20	114	2	504	0	2	0	0	8	0	0	8	16
840606 746	1	MIC	F3.0	11.7	5.0	0.87	7	107	1	210	4	0	0	1	57	3	1	0	10
840621 1343	1	MIC	E2.5	16.1	5.9	0.89	3	115	2	54	1	0	1	7	4	0	0	0	31
840705 947	1	MIC	F3.2	14.1	1.7	0.84	13	42	2	50	0	0	1	3	0	0	0	0	8
840718 1747	1	MIC	F2.9	16.2	0.5	1.06	4	22	2	15	0	0	1	6	0	1	0	0	47
840802 937	1	MIC	E3.1	16.5	2.4	0.97	7	24	1	22	2	0	0	11	0	1	0	0	14
840816 012	1	MIC	E3.3	15.5	3.1	0.97	0	18	1	19	0	0	1	3	0	0	0	0	6
840830 758	1	MIC	E3.6	15.0	2.8	0.80	10	56	1	60	0	0	0	1	0	0	0	0	1
840925 1654	1	MIC	F4.3	14.3	4.1	0.84	21	40	3	112	0	2	1	2	0	0	0	0	4
840110 1109	7	MIC	E4.3	4.8	0.0	1.04	5	80	0	26	3	0	1	2	0	1	8	3	5
040207 1800	7	MIC	F2.8	3.9	0.6	1.18	5	90	0	20	0	0	2	2	0	0	0	1	0
840308 806	7	MIC	E4.1	3.7	0.2	0.94	3	91	0	12	0	0	0	0	0	14	0	3	0
840321 817	7	MIC	E4.2	0.0	0.0	0.68	15	163	0	54	0	0	0	4	0	1	0	0	0
840405 1125	7	MIC	E1.9	7.4	1.0	1.07	3	36	0	41	0	0	0	3	14	0	2	6	98
840416 1732	7	MIC	F4.1	7.3	0.9	0.85	4	66	0	244	0	0	1	6	0	2	0	0	42
840504 919	7	MIC	E2.4	8.7	8.7	0.92	526	480	2	6	0	0	2	56	0	2	0	0	6
840516 1633	7	MIC	F3.5	9.7	1.1	1.10	16	556	0	1408	0	0	0	56	12	0	0	20	8
840606 835	7	MIC	F3.1	11.4	2.2	0.84	0	113	0	252	1	0	5	36	0	0	4	0	16
840621 1114	7	MIC	E2.9	16.2	1.5	0.83	3	162	2	54	0	0	0	21	27	0	0	0	13
840704 836	7	MIC	E3.3	13.7	2.5	0.97	4	5	0	13	0	0	0	0	0	0	0	0	0
840719 843	7	MIC	F3.1	15.6	1.9	0.84	2	5	1	6	0	0	0	0	0	0	0	0	2
840801 1436	7	MIC	F1.7	17.1	1.2	0.92	143	243	46	153	9	1	3	2	2	0	0	0	4
840816 726	7	MIC	F3.4	15.5	1.5	0.92	33	56	0	72	0	5	3	24	0	5	3	0	2
840830 933	7	MIC	E3.2	15.2	0.8	0.81	9	33	0	16	0	0	0	4	0	13	19	0	7
840925 1417	7	MIC	F2.8	14.8	0.5	0.84	26	53	0	83	1	0	3	0	0	0	0	0	1
840110 1123	15	MIC	E4.2	4.2	3.0	1.02	6	70	0	62	0	1	0	11	1	3	1	3	0
840207 1745	15	MIC	F2.7	3.7	0.2	0.86	4	175	0	35	0	0	1	4	0	12	0	1	0
840308 821	15	MIC	E4.0	4.0	1.1	1.04	4	195	1	48	0	0	1	11	0	0	0	1	0

G. EGG	CLAD	ISOPO	I. LAR	BVALV	EUP	D. ZOE	FISH	P. COP	POLY	E. LAR	MEDUS	S. CYP	TENA	SIPH	HYDRA	TARDA
0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	13	3	0	0	0	2	0	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0
3	4	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0
0	12	0	2	0	0	0	0	0	0	0	0	0	0	4	2	0
0	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	32	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	199	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
2	60	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
5	26	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	130	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
1	34	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	3	1	0	0	0	0	0	4	0	0	0	0	0	0	0
0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	40	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	1	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0
0	8	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0
0	314	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
0	192	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
0	279	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	23	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0
0	25	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	631	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	16	0	2	0	0	1	0	0	0	0	0	0	0
0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0	12	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	12	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

DATE	TIME	STN	STYPE	TIDE	TEMP	SAL	VOL	HARP	CNAUP	NEMA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAUP
840321	831	15	MIC	E4.1	0.0	0.0	0.70	14	222	2	71	0	0	0	17	1	0	2	16	10
840405	1102	15	MIC	E2.1	6.6	0.4	0.92	3	51	0	44	0	0	0	4	0	2	2	51	77
840416	1749	15	MIC	F4.1	7.1	2.0	0.99	57	110	0	223	0	0	4	6	3	0	0	23	23
840504	851	15	MIC	E2.6	8.8	3.6	0.92	452	476	0	100	0	0	0	88	8	0	0	68	64
840516	1648	15	MIC	F3.6	9.7	1.0	0.95	4	828	0	1268	0	0	8	60	0	0	0	0	8
840606	821	15	MIC	F3.1	11.3	5.5	0.84	6	261	3	663	11	0	3	172	2	0	0	0	62
840621	755	15	MIC	F2.6	14.1	3.3	1.08	6	70	4	118	2	3	1	30	1	0	0	0	13
840704	852	15	MIC	E3.2	13.7	4.8	1.02	4	206	1	162	1	0	0	31	9	0	0	0	75
840719	826	15	MIC	F3.1	15.2	2.1	1.05	0	24	2	18	0	0	0	7	1	0	3	0	24
840802	914	15	MIC	E3.2	15.8	2.3	0.92	9	39	2	44	4	0	2	8	0	0	2	0	12
840816	740	15	MIC	F3.4	15.1	3.9	0.89	4	45	2	36	3	0	1	7	0	2	2	2	2
840830	919	15	MIC	E3.3	14.9	4.1	0.82	10	83	0	97	0	0	1	6	0	1	1	1	4
840925	1435	15	MIC	F2.9	14.4	2.8	0.83	25	24	0	10	0	0	4	0	0	0	0	0	0
840110	1157	371	MIC	E4.1	4.4	0.5	1.12	0	99	0	20	0	0	0	4	0	1	0	0	0
840308	834	371	MIC	E4.0	4.3	0.3	1.01	2	88	0	23	0	0	2	5	0	0	0	1	1
840321	858	371	MIC	E3.9	0.0	0.0	0.96	2	35	0	12	0	0	0	7	0	0	0	0	7
840405	1205	371	MIC	E1.7	7.9	1.5	0.96	2	43	0	56	0	0	1	16	1	0	0	43	47
840417	1805	371	MIC	F4.0	8.0	2.7	0.96	5	43	0	139	0	0	4	1	1	0	0	3	7
840504	948	371	MIC	E2.1	8.2	26.9	0.96	5	54	0	32	1	0	0	1	0	0	0	1	2
840517	710	371	MIC	E2.6	10.0	4.7	1.05	1	25	0	156	1	0	1	4	0	1	0	0	0
840606	719	371	MIC	F2.9	11.6	4.4	0.69	9	430	0	110	0	8	1	64	11	0	0	1	120
840621	1407	371	MIC	E2.4	17.2	6.1	0.88	0	26	1	7	1	1	0	4	0	0	0	0	5
840705	901	371	MIC	F3.1	13.0	10.4	1.04	3	51	2	46	0	0	1	0	0	0	0	2	53
840718	745	371	MIC	F3.0	15.1	2.9	1.22	4	2	1	0	0	1	0	0	0	0	0	0	1
840802	956	371	MIC	E3.0	16.6	1.1	0.92	2	10	0	8	0	0	2	0	0	0	0	0	0
840816	827	371	MIC	E3.2	15.8	2.1	0.96	9	6	1	5	2	0	0	3	1	0	0	0	3
840830	727	371	MIC	E3.8	14.6	23.6	0.83	8	4	0	17	2	0	1	1	0	1	5	0	0
840925	1230	371	MIC	F1.8	14.0	5.6	0.83	5	32	0	3	0	0	1	0	0	0	0	1	0
840110	1209	372	MIC	E4.0	7.4	28.8	0.90	6	51	0	67	2	0	0	14	0	1	6	2	0
840308	847	372	MIC	E3.9	7.5	30.1	0.97	2	115	0	94	1	0	2	31	2	1	9	2	8
840321	912	372	MIC	E3.8	0.0	0.0	0.72	7	507	0	413	0	1	0	114	9	0	52	79	192
840417	1817	372	MIC	F4.0	8.2	26.9	0.91	32	1140	0	736	0	0	0	64	12	8	40	0	152
840504	1004	372	MIC	E2.0	9.0	25.8	0.91	106	86	0	16	0	0	0	10	0	1	0	1	48
840517	723	372	MIC	E2.5	9.0	27.7	0.88	32	980	1	420	12	0	4	740	40	0	28	12	76
840606	731	372	MIC	F3.0	9.7	30.5	0.77	36	1283	1	869	0	1	0	657	239	0	3	5	676
840621	1420	372	MIC	E2.4	10.6	30.4	1.06	16	1872	16	728	0	4	0	92	84	0	0	0	328

G.EGG	CLAD	ISOPO	I.LAR	BVALV	EUP	D.ZOE	FISH	P.COOP	POLY	E.LAR	MEDUS	B.CYP	TENA	SIPH	HYDRA	TARDA
3	11	0	1	0	0	0	1	0	3	0	0	0	0	0	0	0
0	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
3	13	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0
0	584	4	0	0	0	0	4	8	0	0	0	0	0	0	0	0
0	244	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0
6	1158	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0
5	113	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0
4	200	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
0	47	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0
4	285	0	2	5	0	0	0	0	1	0	0	0	0	0	0	0
1	83	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0
0	97	0	0	1	0	0	0	0	2	0	0	0	0	0	0	1
0	7	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0
1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	62	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
0	16	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
0	11	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
3	14	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
1	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	8	0	0	0	3	1	0	0	6	4	0	0	0	0	0	0
1	7	1	1	0	0	5	0	0	65	4	0	0	0	0	0	0
4	0	0	0	0	0	0	8	0	24	0	0	0	0	0	0	0
0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	12	16	4	0	0	4	0	0	4	98	0	0	0	0	0	0
1	10	0	0	0	0	1	0	0	11	0	0	0	0	0	0	0
4	0	8	0	0	0	0	0	0	20	4	0	0	0	0	0	1

DATE	TIME	STN	STYPE	TIDE	TEMP	SAL	VOL	WARP	CHALUP	NEHA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	OKST	ECTO	BNAUP
840705	914	372	MIC	F3.1	11.1	28.1	0.92	28	900	4	896	0	0	4	76	16	0	12	0	344
840719	757	372	MIC	F3.0	11.1	29.2	1.21	29	411	0	630	1	0	0	72	224	0	16	0	805
840802	1012	372	MIC	E2.9	11.3	28.8	0.80	34	1948	5	1166	11	2	0	32	197	2	66	1	226
840816	840	372	MIC	E3.1	11.5	29.9	0.96	46	347	0	313	1	2	1	19	2	3	28	1	64
840830	740	372	MIC	E3.7	10.9	26.4	0.79	96	687	0	1009	6	1	0	14	3	0	20	4	86
840925	1242	372	MIC	F1.9	10.2	29.7	0.89	32	472	8	1400	0	0	0	8	0	0	8	0	0

G.EGG	CLAD	ISOPO	I.LAR	BVALV	EUP	D.ZOE	FISH	P.COP	POLY	E.LAR	MEDIUS	B.CYP	TENA	SIPH	HYDRA	TARDA
0	4	0	0	4	36	0	0	0	24	4	0	0	8	0	0	0
0	0	0	0	0	7	0	1	0	12	0	2	0	4	0	0	0
4	36	6	0	0	28	0	5	0	79	0	4	0	35	1	0	0
0	10	0	1	81	0	0	0	4	8	0	4	0	5	0	0	0
2	12	1	0	20	0	0	0	0	10	3	0	0	0	0	0	0
0	0	0	0	8	0	0	0	0	40	0	0	0	0	0	0	0

Table 8. Transition micro net raw counts

DATE	TIME	STN	STYF	TIDE	TIMP	SAL	VOL	HARP	CNAUP	NEMA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAUP
840110	1326	20	MIC	E3.7	7.9	30.6	1.05	45	157	1	241	1	9	1	581	11	0	16	50	1
840207	1445	20	MIC	E2.7	7.7	31.5	0.82	19	169	0	127	2	2	0	17	5	0	8	20	4
840308	1035	20	MIC	E3.3	7.7	32.1	0.85	13	761	0	620	28	0	0	132	31	0	41	93	385
840321	1640	20	MIC	F1.9	0.0	0.0	0.99	64	1400	0	868	0	0	0	168	20	0	16	264	248
840405	1037	20	MIC	E2.3	8.6	27.7	0.89	16	208	0	288	0	2	0	112	6	0	18	174	358
840417	1731	20	MIC	F3.6	8.5	29.2	0.96	24	2152	0	2416	0	0	0	112	56	8	24	176	328
840503	1125	20	MIC	E1.0	10.1	25.4	0.96	1468	2216	16	1532	4	12	0	860	20	8	48	112	1348
840515	1703	20	MIC	E4.2	9.2	28.4	0.99	32	7496	0	3280	0	0	0	760	296	0	128	24	728
840603	1650	20	MIC	F1.6	9.8	27.5	0.88	92	11332	0	3756	4	12	0	9512	704	0	44	24	2584
840621	920	20	MIC	F2.7	10.4	30.2	0.89	25	4894	4	2494	1	6	0	939	683	0	36	35	629
840705	750	20	MIC	F2.8	11.1	29.0	0.98	24	2288	12	3620	4	12	0	120	48	0	32	156	784
840718	1600	20	MIC	F2.3	10.9	27.9	1.17	40	952	0	1080	8	0	0	104	376	0	88	16	1128
840802	825	20	MIC	E3.5	10.4	30.5	1.24	64	768	0	1248	0	0	0	24	32	32	120	24	368
840815	1608	20	MIC	F2.6	11.5	30.4	0.91	24	720	0	944	0	4	8	36	0	12	136	12	136
840830	840	20	MIC	E3.4	10.2	30.5	0.81	128	626	7	1047	1	14	0	44	6	2	51	17	159
840925	1637	20	MIC	F4.2	9.5	30.6	0.94	96	384	0	1712	0	16	0	36	24	4	88	148	28
840308	959	21	MIC	E3.6	7.7	31.8	0.91	1	167	1	264	9	0	0	14	20	0	5	30	81
840321	1535	21	MIC	F1.3	0.0	0.0	0.85	280	2104	0	1864	0	0	0	312	16	24	48	872	488
840405	942	21	MIC	E2.7	8.5	27.8	0.86	33	305	0	306	0	1	0	110	1	1	16	89	476
840417	1710	21	MIC	F3.4	8.7	28.9	0.86	38	1148	2	1112	0	6	0	36	16	0	46	172	608
840502	1427	21	MIC	F1.8	9.1	28.2	0.86	64	1128	0	1144	0	0	0	112	64	80	0	112	712
840516	1510	21	MIC	F2.6	10.7	28.4	0.86	200	1392	0	936	0	0	0	320	80	0	56	136	272
840605	1633	21	MIC	F1.4	12.1	28.3	0.86	128	3544	0	784	0	24	0	1208	0	72	16	0	712
840621	858	21	MIC	F2.7	11.7	30.8	0.74	20	9932	12	1480	20	4	4	1112	940	0	20	40	224
840705	715	21	MIC	F2.7	12.4	28.8	0.92	68	2964	8	2076	0	12	4	332	120	4	12	72	372
840718	1517	21	MIC	F2.0	12.8	29.1	0.94	34	596	8	314	0	0	0	80	120	0	48	4	132
840802	803	21	MIC	F3.5	11.5	29.6	0.94	152	600	0	920	8	0	0	72	16	0	96	8	160
840815	1549	21	MIC	F2.5	14.6	28.7	0.99	44	1144	0	1392	0	0	0	76	0	16	136	16	88
840829	755	21	MIC	E3.3	10.5	31.5	0.76	72	1184	8	832	0	8	0	32	8	8	80	32	224
840926	1105	21	MIC	E2.0	10.0	29.8	0.69	100	612	0	940	0	0	0	8	12	0	88	108	4
840110	1229	34	MIC	E4.0	4.4	4.2	0.99	6	127	1	73	0	0	0	14	0	1	0	2	0
840207	1545	34	MIC	E2.5	3.9	1.8	0.69	7	103	0	35	2	2	1	9	1	1	3	11	0
840308	920	34	MIC	E3.7	4.6	6.0	0.86	2	166	1	59	0	0	1	8	0	0	1	4	6
840405	855	34	MIC	E3.2	6.5	2.5	0.88	1	137	0	100	0	0	0	21	0	0	2	21	43
840416	1612	34	MIC	E4.1	7.3	5.1	0.89	176	346	0	388	0	0	0	10	4	0	2	26	90

G.EGG	MYSID	GLAD	ISOPO	I.LAR	BVALV	CHAEI	EUP	CUMA	D.ZOE	P.COOP	POLY	E.LAR	MEDUS	B.CYP	TBM	SIPH	HYDRA	TANAD
0	0	1	0	0	0	0	0	0	0	1	5	6	1	0	0	0	0	0
1	0	3	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0
1	0	6	0	0	0	0	0	0	8	0	60	25	0	0	0	0	8	0
4	0	16	8	0	0	0	0	0	4	0	36	0	0	0	0	8	0	0
24	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0
0	0	8	0	0	0	0	0	0	16	0	32	8	0	0	0	8	0	0
20	0	0	0	0	0	0	0	0	0	12	32	4	28	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	90	520	0	0	0	0	0	0
24	0	148	0	0	0	0	0	0	16	0	48	12	4	0	0	0	8	0
93	0	19	1	0	3	1	3	0	5	0	135	40	4	0	0	0	0	0
148	0	0	0	0	144	0	4	0	8	0	60	12	0	0	28	8	0	0
56	0	8	0	0	24	0	0	0	8	0	90	0	8	0	16	0	0	0
40	0	8	8	0	216	0	16	0	8	0	40	32	9	0	5	0	0	0
40	0	12	0	0	172	0	0	0	0	4	20	0	44	0	0	0	0	0
79	0	8	2	0	58	0	0	0	0	7	52	21	3	0	0	4	0	0
4	0	0	1	0	40	0	0	0	0	0	12	0	0	0	0	0	0	0
2	0	5	2	0	0	1	1	0	1	0	0	15	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0
7	0	2	0	0	0	0	0	0	25	0	12	2	0	0	0	2	0	0
10	2	0	0	0	0	0	0	0	4	0	8	4	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	8	0	24	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	8	8	256	0	48	0	8	0	8
88	0	16	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0
592	0	20	0	0	0	0	0	0	0	4	92	40	0	0	0	0	0	0
436	0	12	4	0	48	0	0	0	8	0	104	28	3	0	32	0	0	0
296	0	4	0	2	16	0	0	2	0	0	14	14	12	0	0	2	0	0
132	0	32	8	0	144	0	0	0	8	8	72	64	48	0	32	0	0	0
56	0	0	4	0	204	0	0	0	0	0	12	4	16	0	0	0	0	0
32	0	0	0	0	48	0	0	0	0	0	8	24	8	0	0	8	0	0
8	0	0	8	0	24	0	0	0	4	0	12	0	16	0	0	0	0	0
0	0	72	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
1	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	7	1	0	0	0	0	1	0	0	3	0	0	0	0	0	0	0
5	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	20	0	0	0	0	0	0	0	0	4	2	0	0	0	4	0	0

DATE	TIME	STN	STYPE	TIDE	TBMP	SAL	VOL	WARP	CNAUP	NEMA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAUP
840504	822	34	MIC	E2.7	8.6	2.1	0.88	172	548	4	412	0	0	0	36	8	4	0	12	300
840515	1719	34	MIC	E4.1	9.6	6.2	0.97	56	6456	0	2048	0	8	0	120	288	0	32	24	592
840606	803	34	MIC	F3.0	11.4	6.2	0.75	4	3141	2	1070	9	2	0	364	160	0	6	4	989
840621	948	34	MIC	F2.8	14.8	3.9	0.88	48	11560	8	3432	0	8	0	1200	1416	0	32	40	1544
840705	837	34	MIC	F3.0	13.4	2.9	0.88	2	836	0	643	0	0	0	35	5	0	4	46	1285
840718	1707	34	MIC	F2.6	10.5	30.1	0.93	16	1072	8	952	0	0	0	128	296	0	152	8	1048
840802	850	34	MIC	E3.4	15.9	3.7	1.10	13	70	0	101	0	0	0	9	0	2	12	1	33
840816	756	34	MIC	E3.3	15.5	3.0	0.83	4	69	0	65	2	0	0	5	0	1	1	4	47
840830	857	34	MIC	E3.3	14.2	7.4	0.77	21	135	0	196	1	0	0	3	0	1	9	3	16
840925	1622	34	MIC	F4.1	13.1	12.2	0.89	5	91	1	253	1	1	0	0	0	0	14	66	55

G.EGG	MYSID	CLAD	ISOPOD	I.LAR	BVALV	CHMET	EUP	CUMA	D.ZOE	P.COP	POLY	E.LAR	MEDUS	B.CYP	TEN	SIPH	HYDRA	TANAD
32	0	296	0	0	0	0	4	0	0	0	8	0	0	0	0	0	0	0
8	0	232	0	0	0	24	8	0	0	0	32	24	0	0	0	0	0	0
31	0	176	2	1	1	0	1	0	3	0	31	1	0	0	0	0	0	0
448	0	144	0	0	48	0	24	0	0	0	208	16	40	0	0	0	0	0
14	0	20	0	0	20	0	0	0	0	0	2	0	0	0	0	0	0	0
128	0	0	0	0	48	0	0	0	0	0	64	8	8	0	16	0	0	0
4	0	102	0	0	12	0	0	0	1	1	2	0	0	0	0	0	0	0
7	0	47	2	0	4	0	0	0	1	0	3	0	0	0	0	0	0	0
18	0	25	2	0	13	0	0	0	0	0	5	0	1	0	0	0	0	0
0	0	3	1	0	1	0	1	0	0	0	2	0	0	0	0	0	0	0

Table 9. Marine micro net raw counts

DATE	TIME	STN	STYPE	TIDE	TEMP	SAL	VOL	HARP	CHAU	NEHA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAUP
840110	1250	27	MIC	E3.8	7.9	30.4	0.82	11	130	0	348	0	7	0	150	1	1	12	23	2
840207	1400	27	MIC	E2.9	7.7	32.3	0.99	12	1844	1	1117	5	8	4	88	9	0	40	95	1
840308	936	27	MIC	E3.7	7.7	31.7	0.96	3	514	0	579	4	0	1	40	24	0	15	45	124
840321	1345	27	MIC	E1.5	9.0	0.0	0.87	12	2916	0	1428	16	0	0	624	56	12	28	268	196
840405	908	27	MIC	E3.0	8.0	27.7	0.99	1	150	0	230	0	0	0	26	2	0	8	40	85
840417	1321	27	MIC	F1.0	8.5	29.3	0.96	8	2136	0	2232	0	0	0	64	40	0	72	168	288
840502	1303	27	MIC	F1.0	8.9	28.7	0.96	0	3440	0	3328	0	0	0	816	80	0	16	96	352
840516	1318	27	MIC	F1.4	9.9	28.8	0.96	24	7288	0	3800	8	0	8	1384	456	16	16	64	488
840605	1457	27	MIC	E1.0	10.2	29.4	0.99	12	16288	0	5468	0	4	0	4760	1036	8	20	16	860
840621	1024	27	MIC	E1.8	10.9	31.1	0.96	0	7584	0	1608	8	0	0	1080	1216	0	0	40	208
840704	1507	27	MIC	F1.5	13.5	28.0	1.12	0	5976	0	6176	8	0	0	216	816	0	16	280	336
840718	1312	27	MIC	F1.6	13.5	29.6	0.87	0	896	0	1628	0	0	0	240	440	0	16	0	304
840801	1220	27	MIC	E1.7	12.3	29.7	1.03	32	2208	0	7480	0	0	0	136	192	0	0	64	264
840815	1304	27	MIC	E1.6	13.2	30.0	1.06	12	1676	0	3748	0	0	0	80	0	12	92	48	92
840829	837	27	MIC	E3.1	10.2	31.7	0.82	72	1280	0	2800	0	0	0	72	24	0	120	32	248
840926	1233	27	MIC	F2.1	9.5	30.9	0.95	96	432	4	1432	4	0	0	28	0	0	64	80	16
840404	950	31	MIC	E2.7	8.4	27.4	0.95	32	1528	0	1648	0	32	0	504	56	0	40	304	432
840417	853	31	MIC	E2.6	8.6	29.2	0.97	16	244	0	484	0	0	0	24	20	0	24	132	352
840502	925	31	MIC	E1.8	8.5	28.7	0.97	4	44	0	337	0	0	0	17	2	0	4	11	94
840516	757	31	MIC	E1.8	9.2	28.3	0.95	48	5376	0	2440	0	0	0	480	264	0	88	64	688
840605	818	31	MIC	E3.3	9.5	29.6	0.99	10	3998	0	1758	0	0	0	554	129	0	1	8	274
840619	859	31	MIC	E2.8	10.7	31.3	1.16	12	988	0	1620	4	0	4	1080	92	4	4	4	104
840704	949	31	MIC	E2.9	10.7	30.7	1.02	4	2660	12	1928	0	0	16	168	224	0	12	164	724
840718	905	31	MIC	E2.6	11.2	29.4	0.92	3	792	1	684	2	1	2	60	172	0	11	17	168
840801	932	31	MIC	E2.8	10.8	30.4	0.97	8	1448	0	2776	0	0	0	184	88	0	64	24	64
840815	842	31	MIC	E2.9	10.3	31.5	0.95	3	793	0	743	0	0	1	68	2	0	39	39	130
840829	1032	31	MIC	E2.3	10.3	31.7	0.79	28	1116	0	520	8	0	0	56	20	0	64	56	160

G.EGG	CLAD	ISOPO	I.LAR	BVALV	CHAET	EUP	CUMA	D.ZOE	FISH	P.COP	POLY	E.LAR	MEDUS	TENA	SIPH	HYDRA
0	7	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
0	0	4	0	0	4	0	0	0	0	1	0	4	0	0	0	0
0	5	1	0	12	0	0	0	45	0	0	5	27	0	0	0	0
4	0	4	0	0	0	8	0	4	0	0	24	48	0	0	0	0
1	1	0	0	0	0	0	0	0	0	0	7	2	0	0	0	0
16	8	0	0	0	0	0	0	0	0	0	24	16	8	0	8	0
0	16	0	0	0	0	0	0	32	16	0	32	0	0	0	0	0
0	0	0	0	32	0	0	0	16	0	0	40	36	8	0	0	0
16	0	0	0	0	4	0	0	16	0	0	36	20	0	0	0	0
24	8	0	0	48	0	0	0	0	0	0	104	160	8	0	0	0
0	0	0	0	120	0	8	0	8	0	0	344	88	16	72	0	0
24	0	0	0	48	0	0	0	8	0	0	0	24	24	16	0	0
40	0	0	0	712	0	32	0	0	1	8	104	296	168	80	0	0
12	4	0	0	236	0	4	0	0	1	4	16	28	44	4	0	0
32	0	8	0	184	0	0	0	0	0	0	16	32	0	0	0	0
0	0	8	0	12	0	0	0	0	0	0	8	0	0	0	0	4
48	0	0	0	0	0	0	0	16	0	0	0	88	0	0	0	0
4	4	0	4	0	0	0	0	0	0	0	4	4	0	0	4	8
7	0	0	0	1	0	2	0	0	0	0	1	4	0	0	0	0
16	24	0	0	0	32	8	0	9	0	8	16	328	8	0	0	0
9	0	0	0	0	0	3	2	2	0	0	8	5	2	0	0	0
16	0	0	0	0	0	28	0	0	0	0	40	76	0	0	0	0
8	52	0	0	60	0	4	0	0	0	0	72	44	0	108	12	0
8	1	0	0	25	0	0	0	0	0	0	20	29	1	15	0	0
16	0	0	0	136	1	8	0	0	0	0	40	128	56	48	0	0
1	2	1	0	121	1	0	0	0	0	0	13	8	8	1	0	0
0	0	0	0	96	0	0	0	0	0	0	12	44	4	0	0	0

Table 10. Estuarine macro net numbers M^{-3}

DATE	TIME	STN	STYPE	TIDE	TEMP	SAL	VOL	WARP	ONAU	NEMA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAU
840110	1143	1	MAC	E4.1	4.3	0.8	9.26	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.5	0.0	0.0	0.0
840308	904	1	MAC	E3.8	4.4	1.1	11.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
840321	938	1	MAC	E3.7	0.0	0.0	6.53	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.3	0.0	0.0	0.2	0.3	0.3
840405	1146	1	MAC	E1.8	7.5	1.7	8.70	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
840417	1749	1	MAC	F3.7	7.3	2.5	9.16	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.9	0.0
840504	1023	1	MAC	E1.8	9.2	6.4	9.16	0.9	0.1	0.0	1.2	0.0	0.0	0.0	0.2	0.0	0.1	0.0	3.2	0.0
840515	1645	1	MAC	F4.2	10.6	1.6	10.06	0.6	0.0	0.0	0.1	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.6	0.0
840606	746	1	MAC	F3.0	11.7	5.0	8.73	0.0	0.1	0.0	2.9	0.0	0.0	0.1	2.4	0.2	0.0	0.0	0.0	0.0
840621	1343	1	MAC	E2.5	16.1	5.9	8.92	0.4	2.0	0.1	0.2	0.0	0.0	0.0	0.6	0.1	0.0	0.0	0.0	0.0
840705	947	1	MAC	F3.2	14.1	1.7	8.37	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
840716	1747	1	MAC	F2.9	16.2	0.5	10.62	1.4	0.1	0.0	0.3	0.0	0.0	0.0	0.6	0.0	0.1	0.0	0.0	0.0
840802	937	1	MAC	E3.1	16.5	2.4	9.73	0.0	0.0	0.0	0.2	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.2
840816	812	1	MAC	E3.3	15.5	3.1	9.70	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.5	0.0	0.1	0.1	0.0	0.0
840830	758	1	MAC	E3.6	15.0	2.8	7.97	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3
840925	1654	1	MAC	F4.3	14.3	4.1	8.39	0.2	0.1	0.1	1.3	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0
840110	1109	7	MAC	E4.3	4.8	0.0	10.39	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.7	0.0	1.0	0.0	0.0	0.0
840308	806	7	MAC	E4.1	3.7	0.2	9.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
840321	817	7	MAC	E4.2	0.0	0.0	6.76	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0
840405	1125	7	MAC	E1.9	7.4	1.0	10.73	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.1	0.0	0.5	0.0	0.5	0.0
840416	1732	7	MAC	F4.1	7.3	0.9	8.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.5	0.0
840504	919	7	MAC	E2.4	8.7	8.7	9.21	2.0	0.0	0.2	1.6	0.0	0.0	0.5	2.6	0.2	0.8	0.2	5.2	0.0
840516	1633	7	MAC	F3.5	9.7	1.1	11.04	0.5	0.3	0.0	1.6	0.0	0.0	0.0	8.5	0.1	0.1	0.0	0.4	0.2
840606	835	7	MAC	F3.1	11.4	2.2	8.41	0.0	0.0	0.0	0.2	0.0	0.0	0.1	9.3	0.0	0.0	0.0	0.0	0.0
840621	1114	7	MAC	E2.9	16.2	1.5	8.32	0.7	1.2	0.0	1.1	0.0	0.0	0.0	0.7	0.4	0.0	0.0	0.0	0.4
840704	836	7	MAC	E3.3	13.7	2.5	9.65	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
840719	843	7	MAC	F3.1	15.6	1.9	8.36	2.2	4.8	2.8	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
840801	1436	7	MAC	F1.7	17.1	1.2	9.21	5.4	5.4	1.5	1.2	0.0	0.1	0.1	0.9	0.0	2.9	0.1	0.0	0.0
840816	726	7	MAC	F3.4	15.5	1.5	9.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.2	0.0	0.0	0.0
840830	933	7	MAC	E3.2	15.2	0.8	8.05	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0
840925	1417	7	MAC	F2.8	14.8	0.5	8.38	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
840110	1123	15	MAC	E4.2	4.2	3.0	10.21	0.1	0.0	0.0	2.6	0.0	0.0	0.0	0.9	0.0	2.4	0.0	0.0	0.0
840308	821	15	MAC	E4.0	4.0	1.1	10.44	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
840321	831	15	MAC	E4.1	0.0	0.0	7.02	0.0	0.0	0.0	12.7	0.0	0.0	0.0	0.3	0.7	1.3	0.0	0.4	1.9
840405	1102	15	MAC	E2.1	6.6	0.4	9.24	0.1	0.2	0.0	3.5	0.0	0.0	0.0	0.5	0.1	6.0	0.1	5.3	0.0
840416	1749	15	MAC	F4.1	7.1	2.0	9.90	0.7	0.0	0.0	6.9	0.0	0.0	0.2	0.1	0.0	0.4	0.0	2.2	0.0

6. EG MYSI	CLAD	ISOP	I. LA	BVAL	CHAE	EUP	D. ZO	FISH	P. CO	POLY	MEDU	B. CY	TEMA	SIPH	HYDR
0.0	0.0	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.6	0.1	0.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
0.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.8	0.0	10.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	0.0	10.9	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.3	0.0	28.4	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.2	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.9	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
1.3	0.0	15.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.5	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.3	0.0	0.9	1.1	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.7	0.0	25.6	0.1	0.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
0.3	0.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.4	0.0	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.6	0.0	0.1	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
2.9	1.0	9.4	0.1	0.0	0.0	0.1	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.7	0.0	3.9	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.5	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	5.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.4	0.0	0.4	1.6	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.9	0.0	3.1	1.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.5	0.0	1.7	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DATE	TIME	STN	TYPE	TIDE	TEMP	SAL	VOL	HARP	ONAU	NEMA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAU
840504	851	15	MAC	E2.6	8.8	3.6	9.24	17.3	0.0	0.0	27.7	0.0	0.0	0.0	1.3	0.0	5.2	0.0	2.3	0.0
840516	1648	15	MAC	F3.6	9.7	1.0	9.47	0.4	0.4	0.0	0.8	0.0	0.0	1.3	122.5	0.0	0.0	0.0	0.0	0.0
840606	821	15	MAC	F3.1	11.3	5.5	8.42	0.6	0.0	0.8	4.3	0.4	0.0	0.8	37.6	0.0	0.0	0.0	0.0	1.4
840621	755	15	MAC	F2.6	14.1	3.3	10.80	0.0	0.0	0.0	1.8	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.1	0.0
840704	852	15	MAC	E3.2	13.7	4.8	10.18	0.1	0.1	0.0	1.4	0.0	0.0	0.0	1.9	0.0	0.2	0.0	0.2	0.3
840719	826	15	MAC	F3.1	15.2	2.1	10.54	0.3	0.0	0.0	1.4	0.0	0.0	0.1	0.6	0.0	0.0	0.0	0.1	0.0
840802	914	15	MAC	E3.2	15.8	2.3	9.24	0.2	0.0	1.1	0.5	0.1	1.9	0.0	3.5	0.0	0.1	0.0	0.1	0.0
840816	740	15	MAC	F3.4	15.1	3.9	8.88	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
840830	919	15	MAC	E3.3	14.9	4.1	8.22	0.0	0.1	0.0	0.7	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.0	0.1
840925	1435	15	MAC	F2.9	14.4	2.8	8.32	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
840110	1157	371	MAC	E4.1	4.4	0.5	11.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.0	0.0
840308	834	371	MAC	E4.0	4.3	0.3	10.13	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
840321	858	371	MAC	E3.9	0.0	0.0	9.58	0.1	0.3	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0
840405	1205	371	MAC	E1.7	7.9	1.5	9.59	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0
840417	1805	371	MAC	F4.0	8.0	2.7	9.59	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
840504	948	371	MAC	E2.1	8.2	26.9	9.59	0.8	0.0	0.0	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0
840517	710	371	MAC	E2.6	10.0	4.7	10.52	0.2	0.0	0.0	0.1	0.0	0.0	0.0	1.7	0.0	0.0	0.1	0.0	0.0
840606	719	371	MAC	F2.9	11.6	4.4	6.89	2.3	1.7	1.7	5.2	0.1	0.1	0.3	2.8	0.9	0.6	0.1	0.1	0.7
840621	1407	371	MAC	E2.4	17.2	6.1	8.82	0.0	0.5	0.2	0.1	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0
840705	901	371	MAC	F3.1	13.0	10.4	10.42	0.6	0.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
840718	745	371	MAC	F3.0	15.1	2.9	12.16	0.5	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
840802	956	371	MAC	E3.0	16.6	1.1	9.23	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0
840816	827	371	MAC	E3.2	15.8	2.1	9.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
840830	727	371	MAC	E3.8	14.6	23.6	8.29	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
840925	1230	371	MAC	F1.8	14.0	5.6	8.33	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
840110	1209	372	MAC	E4.0	7.4	28.8	8.97	0.0	0.0	0.0	3.8	0.0	0.2	0.0	0.0	0.0	1.2	0.0	0.0	0.0
840308	847	372	MAC	E3.9	7.5	30.1	9.73	0.1	0.0	0.1	5.9	0.0	0.0	0.0	0.0	0.2	0.7	0.1	0.1	0.0
840321	912	372	MAC	E3.8	0.0	0.0	7.20	0.0	0.0	0.0	64.3	0.0	0.0	0.1	0.8	0.1	0.4	0.1	1.0	5.4
840417	1817	372	MAC	F4.0	8.2	26.9	9.06	0.9	0.0	0.0	67.1	0.0	0.0	0.0	0.0	0.4	0.9	0.0	3.5	0.0
840504	1004	372	MAC	E2.0	9.0	25.8	9.06	0.8	0.0	0.0	15.8	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.1
840517	723	372	MAC	E2.5	9.0	27.7	8.77	0.0	0.5	0.0	158.3	0.0	0.0	0.0	2.3	4.1	0.0	0.9	2.3	5.5
840606	731	372	MAC	F3.0	9.7	30.5	7.73	0.3	8.4	0.0	223.7	0.1	0.3	0.0	6.9	6.3	0.9	0.0	0.4	1.0
840621	1420	372	MAC	E2.4	10.6	30.4	10.61	0.0	0.8	0.1	20.9	0.1	0.2	0.0	0.9	0.8	0.1	0.1	0.1	2.0
840705	914	372	MAC	F3.1	11.1	28.1	9.18	0.0	0.4	0.0	27.1	0.1	0.0	0.2	0.1	0.0	0.4	0.1	0.0	0.3
840719	757	372	MAC	F3.0	11.1	29.2	12.09	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
840802	1012	372	MAC	E2.9	11.3	28.8	7.96	0.3	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.6

G. EG	WYSI	CLAD	ISOP	I. LA	BVAL	CHAE	EUP	D. ZO	FISH	P. CO	POLY	MEDU	B. CY	TENA	SIPH	HYDR
6.5	0.4	28.6	0.9	0.4	0.0	0.0	0.0	2.2	0.4	0.0	0.4	0.9	0.0	0.0	0.0	0.0
0.0	0.0	136.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.7	0.0	149.8	0.0	0.0	0.0	0.0	0.2	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.6	0.0	14.9	0.0	0.0	0.0	0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.9	0.0	4.4	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0
0.4	0.0	2.5	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.0
3.4	0.0	18.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
2.4	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.1	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
0.0	0.0	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.5	0.1	0.3	0.2	0.0	0.0	0.0	0.3	0.1	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.1	1.8	0.0	0.0	0.0	16.1	4.9	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	25.0	1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	8.8	4.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
0.0	0.7	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.5	0.0	0.6	0.0	0.0	0.0	0.0	1.4	2.8	0.0	0.0	0.0	0.6	0.0	0.0	0.1	0.0
0.9	0.0	0.2	0.0	0.0	0.0	0.0	0.1	3.5	0.0	0.0	0.1	0.2	0.0	4.8	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.5	0.0	6.4	0.1	0.0
0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.3	1.1	0.0	0.0	0.0	0.9	0.0	50.9	0.0	0.0

DATE	TIME	STN	STYPE	TIDE	TEMP	SAL	VOL	HARP	CNAU	NEMA	CAL	WORM	OST	ACAR	EGG	TUN	AMP	GAST	ECTO	BNAU
840816	840	372	MAC	E3.1	11.5	29.9	9.56	0.1	0.0	0.0	1.4	0.2	0.0	0.0	0.0	0.0	5.1	0.2	0.0	0.2
840830	740	372	MAC	E3.7	10.9	26.4	7.92	1.0	0.1	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	1.1
840925	1242	372	MAC	F1.9	10.2	29.7	8.94	0.1	0.1	0.0	7.4	0.0	0.1	0.0	0.0	0.1	0.2	0.1	0.0	0.0

G.EG	WYSI	CLAD	ISOP	I.LA	BVAL	CHAE	EUP	D.ZO	FISH	P.CO	POLY	MEDU	B.CY	TENA	SIPH	HYDR
1.3	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	6.0	0.0	11.4	0.0	0.0
0.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	1.3	0.0	0.0	0.1	0.0
0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0

Table 11. Transition macro net numbers M-3

DATE	TIME	STN	STYPE	TIDE	TEMP	SAL	VOL	HARP	CHLUP	NBHA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAU
840110	1326	20	MAC	E3.7	7.9	30.6	10.51	0.0	0.1	0.0	6.9	0.0	3.3	0.0	0.2	0.1	0.1	0.2	0.0	0.0
840207	1445	20	MAC	E2.7	7.7	31.5	8.23	0.5	0.0	0.0	7.7	0.0	1.6	0.0	0.1	0.0	2.3	0.0	0.0	0.0
840308	1035	20	MAC	E3.3	7.7	32.1	8.47	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.2	2.5	0.2	0.0	0.0	0.0
840321	1640	20	MAC	F1.9	0.0	0.0	9.94	0.8	0.0	0.0	168.2	0.0	0.0	0.0	12.1	0.8	1.6	0.8	3.2	21.7
840405	1037	20	MAC	E2.3	8.6	27.7	8.92	5.4	0.4	0.0	76.2	0.0	1.8	0.0	2.2	1.3	0.9	1.3	47.1	0.4
840417	1731	20	MAC	F3.6	8.5	29.2	9.98	1.7	0.0	0.0	233.8	0.0	0.0	0.0	5.0	8.4	1.7	0.0	40.1	0.0
840503	1125	20	MAC	E1.0	10.1	25.4	9.58	309.8	8.4	1.7	32.6	0.8	0.0	0.0	21.7	0.0	24.2	1.7	25.9	0.0
840515	1703	20	MAC	E4.2	9.2	28.4	9.90	5.7	1.6	0.0	156.8	0.0	6.5	0.0	47.7	9.7	0.0	0.8	16.2	30.7
840605	1650	20	MAC	F1.6	9.8	27.5	8.76	57.6	216.4	0.9	154.2	0.2	3.9	0.0	118.6	4.6	14.2	0.7	3.5	3.5
840621	920	20	MAC	F2.7	10.4	30.2	8.88	0.7	1.1	0.0	34.2	0.0	0.5	0.0	41.9	2.7	0.2	0.2	0.1	4.1
840705	750	20	MAC	F2.8	11.1	29.0	9.77	0.4	0.4	0.0	34.8	0.0	0.0	0.0	2.5	0.0	0.8	0.0	4.9	0.4
840718	1600	20	MAC	F2.3	10.9	27.9	11.74	0.6	0.2	0.1	12.3	0.0	0.5	0.1	14.9	0.3	0.4	0.6	0.0	0.3
840802	825	20	MAC	E3.5	10.4	30.5	12.44	0.3	0.1	0.0	13.5	0.0	0.5	0.0	0.4	0.0	1.4	1.4	0.0	0.2
840815	1608	20	MAC	F2.6	11.5	30.4	9.06	0.4	0.1	0.4	8.4	0.3	0.4	0.0	33.8	0.0	10.7	0.6	0.0	0.1
840830	840	20	MAC	E3.4	10.2	30.5	8.14	0.4	1.2	0.0	5.5	0.0	0.5	0.0	1.5	0.0	4.1	0.9	0.0	1.0
840925	1637	20	MAC	F4.2	9.5	30.6	9.37	0.1	0.2	0.0	16.6	0.0	0.4	0.0	0.1	0.1	0.6	0.5	0.0	0.0
840308	959	21	MAC	E3.6	7.7	31.8	9.14	0.1	0.1	0.0	5.0	0.1	0.0	0.0	0.1	0.8	0.1	0.1	0.1	0.0
840321	1535	21	MAC	F1.3	0.0	0.0	8.45	9.0	0.0	0.0	156.7	0.5	0.0	0.0	18.5	0.5	7.6	1.4	23.7	13.7
840405	942	21	MAC	E2.7	8.5	27.8	8.63	12.6	0.0	0.0	36.6	0.0	0.1	0.0	2.0	0.5	1.0	0.2	22.6	0.7
840417	1710	21	MAC	F3.4	8.7	28.9	8.60	3.3	0.0	0.0	118.6	0.0	0.5	0.0	0.9	2.8	0.0	0.5	29.8	0.0
840502	1427	21	MAC	F1.8	9.1	28.2	8.60	4.7	0.9	0.0	117.2	0.0	0.0	0.0	2.8	0.0	2.8	1.9	21.4	0.0
840516	1510	21	MAC	F2.6	10.7	28.4	8.60	19.5	0.0	0.0	509.8	0.0	0.0	0.0	14.9	1.9	1.9	0.0	9.3	13.0
840605	1633	21	MAC	F1.4	12.1	28.3	8.60	17.2	434.2	10.0	22.6	17.7	4.2	0.2	15.8	3.3	2.3	0.2	2.8	0.9
840621	858	21	MAC	F2.7	11.7	30.8	7.35	1.5	2.6	0.0	11.6	0.0	0.3	0.0	15.6	9.0	0.1	0.5	0.5	1.4
840705	715	21	MAC	F2.7	12.4	28.8	9.22	2.2	26.2	0.0	3.5	0.0	0.2	0.0	2.8	0.2	0.4	0.0	2.4	0.9
840716	1517	21	MAC	F2.0	12.8	29.1	9.38	0.2	0.2	0.0	0.9	0.2	0.1	0.0	1.5	0.0	0.1	0.0	0.1	0.0
840802	803	21	MAC	F3.5	11.5	29.6	9.36	1.0	0.2	0.0	2.2	0.0	0.2	0.0	0.6	0.0	1.4	1.0	0.0	0.0
840815	1549	21	MAC	F2.5	14.6	28.7	9.85	0.7	0.2	0.0	0.8	0.0	0.1	0.0	2.3	0.0	4.7	0.1	0.0	0.0
840829	755	21	MAC	E3.3	10.5	31.5	7.75	0.5	0.4	0.0	6.1	0.0	0.0	0.0	1.9	0.0	0.6	0.4	0.0	2.1
840926	1105	21	MAC	E2.0	10.0	29.8	6.86	1.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0
840110	1229	34	MAC	E4.0	4.4	4.2	9.92	0.2	0.0	0.0	2.6	0.0	0.3	0.0	0.0	0.1	0.7	0.0	0.0	0.0
840308	920	34	MAC	E3.7	4.6	6.0	8.58	1.4	0.0	0.0	9.1	0.0	0.0	0.0	0.1	0.3	0.8	0.0	0.1	0.0
840405	835	34	MAC	E3.2	6.5	2.5	8.76	1.0	0.0	0.0	5.6	0.0	0.0	0.0	0.2	0.0	0.1	0.1	3.8	0.2
840416	1812	34	MAC	E4.1	7.3	5.1	8.94	7.2	0.4	0.0	108.7	0.0	0.0	0.0	0.9	0.4	0.9	0.9	14.3	0.4
840504	822	34	MAC	E2.7	8.6	2.1	8.79	19.6	0.5	0.0	101.0	0.0	0.0	0.0	7.3	2.3	4.1	2.3	3.6	1.8

G.EGG	MYSI	CLAD	ISOP	I.LA	BVAL	CHAE	EUP	CUMA	D.ZO	FISH	P.CO	POLY	E.LA	MEDU	B.CY	TEMA	SIPH	HYDR
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
0.4	0.0	0.2	0.0	0.0	0.0	0.1	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
0.9	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1
0.8	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	14.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0
7.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	9.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
3.3	0.0	8.4	0.0	0.0	0.0	0.0	5.0	0.0	10.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
1.7	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.8	0.0	2.5	0.0	0.0	10.0	0.0	0.0	0.0	0.0
1.6	0.8	2.4	0.0	0.0	0.0	2.4	8.1	0.0	6.5	2.4	0.0	0.0	0.8	0.0	0.0	0.0	0.8	0.0
12.7	0.0	17.6	0.0	0.0	0.1	0.6	2.1	0.0	14.8	0.3	0.0	1.4	0.0	0.1	0.0	0.0	0.5	0.1
48.1	0.0	0.2	0.0	0.0	0.0	0.1	3.0	0.0	10.0	0.0	0.0	0.0	5.9	2.7	0.0	0.0	1.5	0.0
48.3	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.4	0.0
19.8	0.0	0.2	0.0	0.0	0.0	0.1	0.2	0.0	2.1	0.0	0.1	0.1	0.1	0.3	0.0	2.2	0.8	0.0
8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.3	0.0	0.1	0.4	0.0	3.5	0.0	8.7	2.6	0.0
18.3	0.0	0.6	0.1	0.0	0.0	0.0	0.2	0.0	1.0	0.0	0.0	0.0	0.0	44.9	0.0	0.7	0.8	0.0
45.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.7	0.0	0.0	0.1	0.0	1.4	0.0	0.1	4.9	0.0
1.4	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.3	0.0	0.1	0.0	0.0	0.3	0.0	0.0	1.8	0.1
0.5	0.0	1.1	0.0	0.0	0.0	0.0	2.5	0.1	1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	6.2	0.9	0.0	0.0	0.0	0.9	0.9	0.0	0.0	0.0
19.9	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2	13.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	2.3	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
7.4	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.7	0.0	0.0	0.0	0.0	0.0	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124.2	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.2	0.0	0.0	0.5	0.5	0.0	6.0	0.5	0.0
437.4	0.0	2.2	0.0	0.0	0.0	0.1	0.5	0.0	1.8	0.0	0.0	0.0	40.7	2.4	0.0	0.0	1.1	0.0
230.8	0.0	0.2	0.0	0.0	0.0	0.0	0.9	0.0	6.1	0.1	0.0	0.0	0.4	0.0	0.0	3.7	0.2	0.0
169.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.9	0.2	0.0
39.4	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	2.1	0.0	0.1	0.1	0.1	1.4	0.0	3.6	1.3	0.0
20.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.9	0.0	0.2	0.0	0.0
26.7	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.1	0.3	4.4	0.0	0.1	4.4	0.0
1.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.0
0.0	0.0	1.7	1.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.9	7.7	0.0	0.0	0.1	0.5	7.9	2.4	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
1.4	0.0	0.7	0.3	0.0	0.0	0.0	0.0	0.7	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
0.4	0.0	3.1	0.0	0.0	0.0	0.0	0.4	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24.1	0.0	9.6	1.8	0.0	0.0	0.0	0.0	3.2	2.3	0.9	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0

DATE TIME	STN	STYF	TIDE	TBHP	SAL	VOL	HARP	ONLUP	NBKA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAU
840315 1719	34	MAC	E4.1	9.6	6.2	9.68	20.7	2.5	0.0	391.7	0.0	1.7	0.0	2.5	17.4	3.3	4.1	7.4	87.6
840606 803	34	MAC	F3.0	11.4	6.2	7.47	0.4	6.0	0.0	247.1	0.0	0.7	0.0	13.3	35.5	1.5	0.3	1.7	3.5
840621 948	34	MAC	F2.8	14.8	3.9	8.79	893.7	1812.1	1296.0	118.3	10.0	21.8	0.0	33.7	17.3	0.9	2.7	0.0	12.7
840705 837	34	MAC	F3.0	13.4	2.9	8.82	0.9	1.8	0.0	43.1	0.0	0.5	0.0	0.0	0.0	1.4	0.0	2.3	0.9
840802 850	34	MAC	E3.4	15.9	3.7	10.98	0.0	0.0	0.0	0.5	0.2	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0
840816 756	34	MAC	E3.3	15.5	3.0	8.26	0.4	0.0	0.0	9.4	0.0	0.5	0.0	0.6	0.0	10.7	0.5	0.1	0.1
840830 857	34	MAC	E3.3	14.2	7.4	7.72	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.5	0.0	0.3	0.3	0.0	1.6
840925 1622	34	MAC	F4.1	13.1	12.2	8.92	0.4	0.0	0.0	20.5	0.0	0.4	0.0	0.0	0.3	0.2	0.1	0.0	0.1

G.EGG	WYSI	CLAD	ISOP	I.LA	BVAL	CHAE	EUP	CUMA	D.ZO	FISH	P.CO	POLY	E.LA	MEDU	B.CY	TENA	SIPH	HYDR
1.7	0.8	4.1	0.0	0.0	0.0	4.1	16.5	0.0	9.1	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.4	0.0	4.4	0.0	0.0	0.0	0.0	12.0	0.0	13.5	0.0	0.0	0.5	0.0	1.3	0.0	0.0	0.4	0.0
305.8	0.0	1.8	0.0	0.0	1.8	0.9	18.2	0.0	4.6	0.0	0.0	0.9	1.8	3.6	0.0	0.0	0.0	0.0
44.0	0.0	3.6	0.0	0.0	0.0	0.0	4.5	0.0	3.6	0.0	0.0	0.0	0.5	0.9	0.0	20.9	0.0	0.0
0.8	0.0	1.8	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
13.7	0.0	0.8	0.0	0.0	0.0	0.0	0.1	0.0	1.7	0.0	0.0	0.1	0.0	9.0	0.0	0.6	0.6	0.0
32.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.1	0.0
1.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0	0.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.0

Table 12. Marine macro net numbers M-3

DATE	TIME	STN	STYPE	TIDE	TBNP	SAL	VOL	HARP	CMU	NBMA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNMU
840110	1250	27	MAC	E3.8	7.9	30.4	8.23	0.0	0.0	0.0	29.3	0.1	4.0	0.0	0.0	0.1	1.0	0.1	0.0	0.0
840207	1400	27	MAC	E2.9	7.7	32.3	9.88	0.0	0.3	0.0	35.7	0.0	4.1	0.0	0.0	0.0	0.5	0.0	0.1	0.0
840308	936	27	MAC	E3.7	7.7	31.7	9.64	0.0	0.0	0.0	14.0	0.0	0.0	0.0	0.0	0.7	0.2	0.1	0.0	0.0
840321	1345	27	MAC	E1.5	9.0	0.0	8.74	2.3	0.5	0.0	97.9	2.3	0.0	0.0	13.7	1.4	0.5	0.5	6.9	25.6
840405	908	27	MAC	E3.0	8.0	27.7	9.59	0.8	0.0	0.0	127.0	0.0	2.4	0.0	0.8	0.0	0.8	0.0	8.9	0.8
840417	1321	27	MAC	F1.0	8.5	29.3	9.56	0.8	4.2	0.0	181.6	0.0	0.0	0.0	5.0	0.8	0.0	0.8	35.1	0.0
840502	1303	27	MAC	F1.0	8.9	28.7	9.56	0.0	0.0	0.0	351.5	0.0	0.0	0.0	22.6	0.0	0.0	0.0	20.1	0.0
840516	1316	27	MAC	F1.4	9.9	28.8	9.56	0.0	0.8	0.0	371.5	0.0	0.0	0.0	140.6	0.0	0.0	0.8	5.0	33.5
840605	1457	27	MAC	E1.0	10.2	29.4	9.94	0.3	2.7	0.0	163.8	0.0	0.3	0.0	463.7	2.7	1.0	0.5	2.4	0.8
840621	1024	27	MAC	E1.8	10.9	31.1	9.56	4.2	20.1	1.3	51.0	0.0	0.0	0.0	153.6	24.3	0.0	0.0	0.4	0.8
840704	1507	27	MAC	F1.5	13.5	28.0	11.17	0.0	9.0	0.0	26.5	0.0	0.4	0.0	5.4	0.7	0.7	0.0	3.2	0.0
840718	1312	27	MAC	F1.6	13.5	29.6	8.67	0.0	0.2	0.0	13.1	0.0	0.0	0.0	17.0	0.6	0.5	0.3	0.2	0.1
840801	1220	27	MAC	E1.7	12.3	29.7	10.34	0.1	0.1	0.0	38.6	0.0	0.0	0.0	1.3	0.2	3.2	1.1	0.0	0.2
840815	1504	27	MAC	E1.6	13.2	30.0	10.55	0.0	0.1	0.0	6.8	0.0	0.0	0.0	18.3	0.0	19.3	0.6	0.0	0.0
840829	837	27	MAC	E3.1	10.2	31.7	8.19	0.1	0.1	0.0	61.2	0.1	1.3	0.0	7.0	0.0	4.6	2.6	0.0	3.5
840926	1233	27	MAC	F2.1	9.5	30.9	9.47	0.1	0.2	0.1	7.7	0.1	0.3	0.0	0.2	0.0	0.7	0.0	0.1	0.0
840404	950	31	MAC	E2.7	8.4	27.4	9.51	0.0	0.0	0.0	124.9	0.0	0.0	0.0	0.4	0.8	0.4	0.8	25.7	1.5
840417	853	31	MAC	E2.6	8.6	29.2	9.66	0.4	0.8	0.0	48.9	0.0	0.0	0.0	0.0	0.0	0.4	0.0	12.0	0.0
840502	925	31	MAC	E1.8	8.5	28.7	9.66	0.0	0.0	0.0	137.1	0.0	0.0	0.0	4.1	0.8	3.7	0.0	12.0	0.0
840516	757	31	MAC	E1.8	9.2	28.3	9.54	0.8	1.7	0.0	309.6	0.0	2.5	0.0	52.8	14.3	0.0	1.7	19.3	58.7
840605	816	31	MAC	E3.3	9.5	29.6	9.91	0.0	0.1	0.0	115.7	0.0	0.1	0.1	11.1	0.4	0.1	0.2	0.5	0.1
840619	859	31	MAC	E2.8	10.7	31.3	11.62	0.0	0.0	0.7	138.7	32.4	0.0	0.0	7.6	1.0	0.3	0.0	1.0	3.1
840704	949	31	MAC	E2.9	10.7	30.7	10.15	0.1	0.1	0.0	29.6	0.5	0.0	0.0	0.5	0.5	0.3	0.2	1.3	1.5
840718	905	31	MAC	E2.6	11.2	29.4	9.18	1.2	0.1	0.0	29.4	0.0	0.0	0.0	4.9	1.1	0.2	0.4	0.0	0.2
840801	932	31	MAC	E2.8	10.8	30.4	9.66	0.0	0.1	0.0	61.8	0.0	0.0	0.0	0.8	0.1	1.3	1.0	0.0	0.2
840815	842	31	MAC	E2.9	10.3	31.5	9.46	0.3	0.0	0.0	18.4	0.0	0.1	0.0	7.8	0.0	1.4	0.1	0.1	0.4
840829	1032	31	MAC	E2.3	10.3	31.7	7.94	0.1	0.0	0.0	43.7	0.0	0.8	0.0	0.9	0.0	1.0	1.4	0.0	1.5

GLEG	MTSI	CLAD	ISOP	I.LA	BVAL	OWNE	EUP	CUMA	D.ZO	FISH	POLY	E.LA	MEDU	B.CY	TEMA	SIPH	HYDR	TANA
0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.6	0.2	0.9	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.1	0.2	0.0	0.2	0.0	0.0	0.9	0.0	0.0
0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.2	5.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
0.9	0.0	3.2	0.0	0.0	0.0	0.5	3.7	0.0	16.0	0.0	1.4	0.0	0.0	0.0	0.0	0.5	0.0	0.0
7.3	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	11.3	2.4	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0
0.8	0.0	0.8	0.0	0.0	0.0	0.0	1.7	0.0	11.7	0.0	0.0	0.0	0.8	0.0	0.0	1.7	0.0	0.0
0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	16.7	1.7	1.7	0.0	0.0	0.0	0.0	5.0	0.0	0.0
3.3	0.0	5.0	0.0	0.0	0.0	0.8	6.7	0.0	6.7	0.8	0.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0
1.9	0.0	0.2	0.0	0.0	0.0	0.5	4.4	0.0	10.1	0.0	0.0	0.6	0.0	0.6	0.0	0.4	0.0	0.0
39.7	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	2.9	0.0	0.0	6.3	2.1	0.0	0.0	1.3	0.0	0.0
0.4	0.0	0.4	0.0	0.4	0.0	0.0	16.8	0.0	16.5	1.4	0.7	1.4	0.0	0.4	43.3	1.4	0.0	0.0
3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.0	0.7	0.0	0.3	0.8	0.0	0.0
3.0	0.0	0.1	0.0	0.0	0.0	0.4	5.2	0.0	4.9	0.1	0.0	0.4	13.0	0.0	19.0	1.7	0.0	0.0
0.9	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	1.0	0.3	0.2	0.1	54.7	0.0	4.6	0.5	0.0	0.0
5.3	0.0	0.4	0.2	0.0	0.0	0.4	0.0	0.0	3.9	0.0	1.0	0.0	2.4	0.0	1.1	6.2	0.0	0.0
0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.0	3.0	0.1	0.0
0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	0.4	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0
2.5	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.9	0.0	0.4	0.0	0.0	0.0	0.0	3.7	0.0	5.4	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.8
0.8	0.0	0.0	0.0	0.0	0.0	0.8	11.7	0.0	7.5	0.0	0.0	1.7	0.8	0.8	0.0	0.0	0.0	0.0
4.2	0.0	0.2	0.0	0.0	0.0	0.2	2.4	0.1	2.9	0.0	0.0	0.1	0.6	0.0	0.0	0.5	0.0	0.0
3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	2.1	0.3	0.0	0.0	0.0	0.0	0.0
4.9	0.0	1.7	0.0	0.0	0.0	0.1	6.5	0.0	1.1	0.0	0.5	0.2	0.3	0.0	12.0	5.2	0.0	0.0
3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.4	0.0	0.0	0.0	1.1	0.0	1.2	0.3	0.0	0.0
2.1	0.0	0.0	0.0	0.0	0.0	0.4	10.7	0.0	1.0	0.0	0.0	0.2	9.1	0.0	12.4	0.8	0.0	0.0
1.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.6	0.0	0.1	0.0	1.2	0.0	1.5	0.5	0.0	0.0
1.6	0.0	0.1	0.0	0.0	0.0	0.4	0.0	0.0	2.0	0.0	0.0	0.6	0.0	0.5	0.0	2.5	0.0	0.0

Table 13. Estuarine micro net numbers M⁻³

DATE	TIME	STN	STYPE	TIDE	TBMP	SAL	VOL	WARP	ONUP	NEMA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAUP
840110	1143	1	MIC	E4.1	4.3	0.8	0.93	0.0	45.2	0.0	16.1	0.0	0.0	1.1	3.2	0.0	0.0	0.0	0.0	0.0
840207	1730	1	MIC	F2.6	3.9	1.4	1.03	2.9	144.7	1.0	22.3	0.0	0.0	1.9	6.8	0.0	1.0	1.0	8.7	0.0
840308	904	1	MIC	E3.8	4.4	1.1	1.10	10.9	108.2	0.0	17.3	0.0	0.0	0.0	10.9	0.0	0.0	0.9	1.8	5.5
840321	938	1	MIC	E3.7	0.0	0.0	0.65	7.7	76.9	0.0	38.5	0.0	1.5	0.0	9.2	0.0	0.0	3.1	16.9	21.5
840405	1146	1	MIC	E1.8	7.5	1.7	0.87	18.4	37.9	0.0	29.9	0.0	0.0	0.0	2.3	0.0	0.0	1.1	83.9	28.7
840417	1749	1	MIC	F3.7	7.3	2.5	0.92	4.3	232.6	0.0	319.6	0.0	0.0	6.5	13.0	4.3	0.0	0.0	13.0	26.1
840504	1023	1	MIC	E1.8	9.2	6.4	0.92	6.5	113.0	0.0	178.3	1.1	0.0	0.0	4.3	0.0	0.0	0.0	8.7	17.4
840515	1645	1	MIC	F4.2	10.6	1.6	1.01	19.8	112.9	2.0	499.0	0.0	2.0	0.0	7.9	0.0	0.0	0.0	4.0	9.9
840606	746	1	MIC	F3.0	11.7	5.0	0.87	8.0	123.0	1.1	241.4	4.6	0.0	1.1	65.5	3.4	1.1	0.0	0.0	35.6
840621	1343	1	MIC	E2.5	16.1	5.9	0.89	3.4	129.2	2.2	60.7	1.1	0.0	1.1	7.9	4.5	0.0	0.0	0.0	9.0
840705	947	1	MIC	F3.2	14.1	1.7	0.84	15.5	50.0	2.4	59.5	0.0	0.0	1.2	3.6	0.0	0.0	0.0	0.0	56.0
840718	1747	1	MIC	F2.9	16.2	0.5	1.06	3.8	20.8	1.9	14.2	0.0	0.0	0.9	5.7	0.0	0.9	0.0	0.0	13.2
840802	937	1	MIC	E3.1	16.5	2.4	0.97	7.2	24.7	1.0	22.7	2.1	0.0	3.1	11.3	0.0	1.0	0.0	0.0	6.2
840816	812	1	MIC	E3.3	15.5	3.1	0.97	0.0	18.6	1.0	19.6	0.0	0.0	1.0	3.1	0.0	0.0	0.0	0.0	1.0
840830	758	1	MIC	E3.6	15.0	2.8	0.80	12.5	70.0	1.3	75.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	5.0
840925	1654	1	MIC	F4.3	14.3	4.1	0.84	25.0	47.6	3.6	133.3	0.0	2.4	1.2	2.4	0.0	1.2	9.5	3.6	6.0
840110	1109	7	MIC	E4.3	4.8	0.0	1.04	4.8	76.9	0.0	25.0	2.9	0.0	1.0	1.9	0.0	0.0	0.0	1.0	0.0
840207	1800	7	MIC	F2.8	3.9	0.6	1.18	4.2	76.3	0.0	16.9	0.0	0.0	1.7	1.7	0.0	11.9	0.0	2.5	0.0
840308	806	7	MIC	E4.1	3.7	0.2	0.94	3.2	96.8	0.0	12.8	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0
840321	817	7	MIC	E4.2	0.0	0.0	0.68	22.1	239.7	0.0	79.4	0.0	0.0	0.0	5.9	0.0	0.0	4.4	72.1	144.1
840405	1125	7	MIC	E1.9	7.4	1.0	1.07	2.8	33.6	0.0	38.3	0.0	0.0	2.8	13.1	0.0	1.9	5.6	87.9	39.3
840416	1732	7	MIC	F4.1	7.3	0.9	0.85	4.7	77.6	0.0	287.1	0.0	0.0	1.2	7.1	2.4	0.0	0.0	40.0	7.1
840504	919	7	MIC	E2.4	8.7	8.7	0.92	571.7	521.7	2.2	6.5	0.0	0.0	2.2	60.9	0.0	2.2	0.0	21.7	8.7
840516	1633	7	MIC	F3.5	9.7	1.1	1.10	14.5	505.5	0.0	1280.0	0.0	0.0	0.0	50.9	10.9	0.0	0.0	0.0	14.5
840606	825	7	MIC	F3.1	11.4	2.2	0.84	0.0	134.5	0.0	300.0	1.2	0.0	6.0	42.9	0.0	0.0	0.0	0.0	15.5
840621	1114	7	MIC	E2.9	16.2	1.5	0.83	3.6	195.2	2.4	65.1	0.0	0.0	0.0	25.3	32.5	0.0	0.0	0.0	0.0
840704	836	7	MIC	E3.3	13.7	2.5	0.97	4.1	5.2	0.0	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
840719	843	7	MIC	F3.1	15.6	1.9	0.84	2.4	6.0	1.2	7.1	0.0	0.0	1.2	2.4	2.4	0.0	0.0	0.0	4.8
840801	1436	7	MIC	F1.7	17.1	1.2	0.92	155.4	264.1	50.0	166.3	9.8	1.1	3.3	26.1	0.0	5.4	3.3	0.0	2.2
840816	726	7	MIC	F3.4	15.5	1.5	0.92	35.9	60.9	0.0	78.3	0.0	5.4	3.3	4.3	0.0	14.1	20.7	0.0	7.6
840830	933	7	MIC	E3.2	15.2	0.8	0.81	11.1	40.7	0.0	19.8	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	1.2
840925	1417	7	MIC	F2.8	14.8	0.5	0.84	31.0	63.1	0.0	98.8	1.2	0.0	3.6	0.0	0.0	2.4	0.0	0.0	0.0
840110	1123	15	MIC	E4.2	4.2	3.0	1.02	5.9	68.6	0.0	60.8	0.0	1.0	0.0	10.8	1.0	2.9	1.0	2.9	0.0
840207	1745	15	MIC	F2.7	3.7	0.2	0.86	4.7	203.5	0.0	40.7	0.0	0.0	1.2	4.7	0.0	14.0	0.0	1.2	0.0
840308	821	15	MIC	E4.0	4.0	1.1	1.04	3.8	187.5	1.0	46.2	0.0	0.0	1.0	10.6	0.0	0.0	0.0	1.0	0.0

G.EG	CLAD	ISOP	I.LA	BVAL	EUP	O.ZO	FISH	P.CO	POLY	E.LAR	MEDU	B.CY	TENA	SIPH	HYDR	TARD
0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	11.8	2.7	0.0	0.0	0.0	1.8	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.4	4.6	2.3	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	13.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	2.2	0.0
0.0	89.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.0	31.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	228.7	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.2	67.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.0	31.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	134.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0	39.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.3	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	3.6	1.2	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	33.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.5	4.4	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.0
0.0	341.3	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	174.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	18.2	0.0	0.0	0.0	0.0
0.0	332.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.2	27.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.4	707.6	0.0	0.0	9.8	0.0	2.2	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.2	0.0	0.0	0.0	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	34.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	14.3	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
0.0	57.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	54.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DATE	TIME	STN	TYPE	TIDE	TEMP	SAL	VOL	HARP	ONALUP	NEMA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAUP
840321	831	15	MIC	E4.1	0.0	0.0	0.70	20.0	317.1	2.9	101.4	0.0	0.0	0.0	24.3	1.4	0.0	2.9	22.9	14.3
840405	1102	15	MIC	E2.1	6.6	0.4	0.92	3.3	55.4	0.0	47.8	0.0	0.0	0.0	4.3	0.0	2.2	2.2	55.4	83.7
840416	1749	15	MIC	F4.1	7.1	2.0	0.99	57.6	111.1	0.0	225.3	0.0	0.0	4.0	6.1	3.0	0.0	0.0	23.2	23.2
840504	851	15	MIC	E2.6	8.8	3.6	0.92	491.3	517.4	0.0	108.7	0.0	0.0	0.0	95.7	8.7	0.0	0.0	73.9	69.6
840516	1648	15	MIC	F3.6	9.7	1.0	0.95	4.2	871.6	0.0	1334.7	0.0	0.0	8.4	63.2	0.0	0.0	0.0	0.0	8.4
840606	821	15	MIC	F3.1	11.3	5.5	0.84	7.1	310.7	3.6	789.3	13.1	0.0	3.6	204.8	2.4	0.0	0.0	0.0	73.8
840621	755	15	MIC	F2.6	14.1	3.3	1.08	5.6	64.8	3.7	109.3	1.9	2.8	0.9	27.8	0.9	0.0	0.0	0.0	12.0
840704	852	15	MIC	E3.2	13.7	4.8	1.02	3.9	202.0	1.0	138.8	1.0	0.0	0.0	30.4	8.8	0.0	0.0	0.0	73.5
840719	826	15	MIC	F3.1	15.2	2.1	1.05	0.0	22.9	1.9	17.1	0.0	0.0	0.0	6.7	1.0	0.0	2.9	0.0	22.9
840802	914	15	MIC	E3.2	15.8	2.3	0.92	9.8	42.4	2.2	47.8	4.3	0.0	2.2	8.7	0.0	0.0	2.2	0.0	13.0
840816	740	15	MIC	F3.4	15.1	3.9	0.89	4.5	50.6	2.2	40.4	3.4	0.0	1.1	7.9	0.0	2.2	2.2	2.2	2.2
840830	919	15	MIC	E3.3	14.9	4.1	0.82	12.2	101.2	0.0	118.3	0.0	0.0	1.2	7.3	0.0	1.2	1.2	1.2	4.9
840925	1435	15	MIC	F2.9	14.4	2.8	0.83	30.1	28.9	0.0	12.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
840110	1157	371	MIC	E4.1	4.4	0.5	1.12	0.0	88.4	0.0	17.9	0.0	0.0	0.0	3.6	0.0	0.9	0.0	0.0	0.0
840308	834	371	MIC	E4.0	4.3	0.3	1.01	2.0	87.1	0.0	22.8	0.0	0.0	2.0	5.0	0.0	0.0	0.0	1.0	1.0
840321	858	371	MIC	E3.9	0.0	0.0	0.96	2.1	36.5	0.0	12.5	0.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0	7.3
840405	1205	371	MIC	E1.7	7.9	1.5	0.96	2.1	44.8	0.0	58.3	0.0	0.0	1.0	16.7	1.0	0.0	0.0	44.8	49.0
840417	1805	371	MIC	F4.0	8.0	2.7	0.96	5.2	44.8	0.0	144.8	0.0	0.0	4.2	1.0	1.0	0.0	0.0	3.1	7.3
840504	948	371	MIC	E2.1	8.2	26.9	0.96	5.2	56.3	0.0	33.3	1.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	2.1
840517	710	371	MIC	E2.6	10.0	4.7	1.05	1.0	23.8	0.0	148.6	1.0	0.0	1.0	3.8	0.0	1.0	0.0	0.0	0.0
840606	719	371	MIC	F2.9	11.6	4.4	0.69	13.0	623.2	0.0	159.4	0.0	11.6	1.4	92.8	15.9	0.0	0.0	1.4	173.9
840621	1407	371	MIC	E2.4	17.2	6.1	0.88	0.0	29.5	1.1	8.0	1.1	1.1	0.0	4.5	0.0	0.0	0.0	0.0	5.7
840705	901	371	MIC	F3.1	13.0	10.4	1.04	2.9	49.0	1.9	44.2	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.9	51.0
840718	745	371	MIC	F3.0	15.1	2.9	1.22	3.3	1.6	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8
840802	956	371	MIC	E3.0	16.6	1.1	0.92	2.2	10.9	0.0	8.7	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
840816	827	371	MIC	E3.2	15.8	2.1	0.96	9.4	6.3	1.0	5.2	2.1	0.0	0.0	3.1	1.0	0.0	0.0	0.0	3.1
840830	727	371	MIC	E3.8	14.6	23.6	0.83	9.6	4.8	0.0	20.5	2.4	0.0	1.2	1.2	0.0	1.2	6.0	0.0	0.0
840925	1230	371	MIC	F1.8	14.0	5.6	0.83	6.0	38.6	0.0	3.6	0.0	0.0	1.2	0.0	0.0	0.0	0.0	1.2	0.0
840110	1209	372	MIC	E4.0	7.4	28.8	0.90	6.7	56.7	0.0	74.4	2.2	0.0	0.0	15.6	0.0	1.1	6.7	2.2	0.0
840308	847	372	MIC	E3.9	7.5	30.1	0.97	2.1	118.6	0.0	96.9	1.0	0.0	2.1	32.0	2.1	1.0	9.3	2.1	8.2
840321	912	372	MIC	E3.8	0.0	0.0	0.72	9.7	704.2	0.0	573.6	0.0	1.4	0.0	158.3	12.5	0.0	72.2	109.7	266.7
840417	1817	372	MIC	F4.0	8.2	26.9	0.91	35.2	1252.7	0.0	808.8	0.0	0.0	0.0	70.3	13.2	8.8	44.0	0.0	167.0
840504	1004	372	MIC	E2.0	9.0	25.8	0.91	116.5	94.5	0.0	17.6	0.0	0.0	0.0	11.0	0.0	1.1	0.0	1.1	52.7
840517	723	372	MIC	E2.5	9.0	27.7	0.88	36.4	1113.6	0.0	477.3	13.6	0.0	4.5	840.9	45.5	0.0	31.8	13.6	86.4
840606	731	372	MIC	F3.0	9.7	30.5	0.77	46.8	1666.2	1.3	1128.6	0.0	1.3	0.0	853.2	310.4	0.0	3.9	6.5	877.9
840621	1420	372	MIC	E2.4	10.6	30.4	1.06	15.1	1766.0	15.1	686.8	0.0	3.8	0.0	86.8	79.2	0.0	0.0	0.0	309.4

G.EG	CLAD	ISOP	I.LA	BVAL	EUP	D.ZO	FISH	P.CO	POLY	E.LAR	MEDU	B.CY	TENA	SIPH	HYDR	TARD
4.3	15.7	0.0	1.4	0.0	0.0	0.0	1.4	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	6.5	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.0	13.1	0.0	2.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	634.8	4.3	0.0	0.0	0.0	0.0	4.3	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	256.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.1	1378.6	1.2	1.2	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.6	104.6	0.0	0.9	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.9	196.1	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	44.8	0.0	1.9	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.3	309.8	0.0	2.2	5.4	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1	93.3	0.0	2.2	1.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	118.3	0.0	0.0	1.2	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	1.2
0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.1	9.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	59.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	23.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.9	13.5	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	31.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
0.0	3.1	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.2	2.4	0.0	0.0	1.2	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	8.2	0.0	0.0	0.0	3.1	1.0	0.0	0.0	6.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
1.4	9.7	1.4	1.4	0.0	0.0	0.0	6.9	0.0	90.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0
4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	0.0	26.4	0.0	0.0	0.0	0.0	0.0	0.0
0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	13.6	18.2	4.5	0.0	0.0	0.0	4.5	0.0	4.5	100.0	0.0	0.0	0.0	0.0	0.0	0.0
1.3	13.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.8	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	18.9	3.8	0.0	0.0	0.0	0.0	0.0	0.9

DATE	TIME	STN	STYPE	TIDE	TBM	SAL	VOL	HARP	OWAUP	NEMA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAUP
840705	914	372	MIC	F3.1	11.1	28.1	0.92	30.4	978.3	4.3	973.9	0.0	0.0	4.3	82.6	17.4	0.0	13.0	0.0	373.9
840719	757	372	MIC	F3.0	11.1	29.2	1.21	24.0	339.7	0.0	520.7	0.8	0.0	0.0	59.5	185.1	0.0	13.2	0.0	665.3
840802	1012	372	MIC	E2.9	11.3	28.8	0.80	42.5	2435.0	6.3	1457.5	13.8	2.5	0.0	40.0	246.3	2.5	82.5	1.3	282.5
840816	840	372	MIC	E3.1	11.5	29.9	0.96	47.9	361.5	0.0	326.0	1.0	2.1	1.0	19.8	2.1	3.1	29.2	1.0	66.7
840830	740	372	MIC	E3.7	10.9	26.4	0.79	121.5	869.6	0.0	1277.2	7.6	1.3	0.0	17.7	3.8	0.0	25.3	5.1	108.9
840925	1242	372	MIC	F1.9	10.2	29.7	0.89	36.0	530.3	9.0	1573.0	0.0	0.0	0.0	9.0	0.0	0.0	9.0	0.0	0.0

G.EG	CLAD	ISOP	I.LA	BVAL	EUP	O.ZD	FISH	P.CO	POLY	E.LAR	MEDU	B.CY	TEMA	SIPH	HYDR	TARD
0.0	4.3	0.0	4.3	39.1	0.0	0.0	0.0	0.0	26.1	4.3	0.0	0.0	8.7	0.0	0.0	0.0
0.0	0.0	0.0	0.0	5.8	0.0	0.8	0.0	0.0	9.9	0.0	1.7	0.0	3.3	0.0	0.0	0.0
5.0	45.0	7.5	0.0	35.0	0.0	6.3	0.0	0.0	96.8	0.0	5.0	0.0	43.8	1.3	0.0	0.0
0.0	10.4	0.0	1.0	84.4	0.0	0.0	0.0	4.2	8.3	0.0	4.2	0.0	5.2	0.0	0.0	0.0
2.5	15.2	1.3	0.0	25.3	0.0	0.0	0.0	0.0	12.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	44.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 14. Transition micro net numbers M-3

DATE	TIME	STN	STYRE	TIDE	TBRP	SAL	VOL	HARP	CNAUP	NBMA	CAL	WORM	OST	ACAR	ESG	TUNI	AMP	CAST	ECTO	BNAUP
840110	1326	20	MIC	E3.7	7.9	30.6	1.05	42.9	149.5	1.0	229.5	1.0	8.6	1.0	553.3	10.5	0.0	15.2	47.6	1.0
840207	1445	20	MIC	E2.7	7.7	31.5	0.82	23.2	206.1	0.0	154.9	2.4	2.4	0.0	20.7	6.1	0.0	9.8	24.4	4.9
840308	1035	20	MIC	E3.3	7.7	32.1	0.85	15.3	895.3	0.0	729.4	32.9	0.0	0.0	155.3	36.5	0.0	48.2	109.4	452.9
840321	1640	20	MIC	F1.9	0.0	0.0	0.99	64.6	1414.1	0.0	876.8	0.0	0.0	0.0	169.7	20.2	0.0	16.2	266.7	250.5
840405	1037	20	MIC	E2.3	8.6	27.7	0.89	18.0	233.7	0.0	323.6	0.0	2.2	0.0	125.8	6.7	0.0	20.2	195.5	402.2
840417	1751	20	MIC	F3.6	8.5	29.2	0.96	25.0	2241.7	0.0	2516.7	0.0	0.0	0.0	116.7	58.3	8.3	25.0	183.3	341.7
840503	1125	20	MIC	E1.0	10.1	25.4	0.96	1529.2	2308.3	16.7	1595.8	4.2	12.5	0.0	895.8	20.8	8.3	50.0	116.7	1404.2
840515	1705	20	MIC	E4.2	9.2	28.4	0.99	32.3	7571.7	0.0	3313.1	0.0	0.0	0.0	767.7	299.0	0.0	129.3	24.2	735.4
840605	1650	20	MIC	F1.6	9.8	27.5	0.88	104.5	12877.3	0.0	4268.2	4.5	13.6	0.0	10809.1	800.0	0.0	50.0	27.3	2936.4
840621	1920	20	MIC	F2.7	10.4	30.2	0.89	28.1	5498.9	4.5	2802.2	1.1	6.7	0.0	1055.1	767.4	0.0	40.4	39.3	706.7
840705	750	20	MIC	F2.8	11.1	29.0	0.98	24.5	2334.7	12.2	3693.9	4.1	12.2	0.0	122.4	49.0	0.0	32.7	159.2	800.0
840716	1600	20	MIC	F2.3	10.9	27.9	1.17	34.2	813.7	0.0	923.1	6.8	0.0	0.0	88.9	321.4	0.0	75.2	13.7	964.1
840802	825	20	MIC	E3.5	10.4	30.5	1.24	51.6	619.4	0.0	1006.5	0.0	0.0	0.0	19.4	25.8	25.8	96.8	19.4	296.8
840815	1608	20	MIC	F2.6	11.5	30.4	0.91	26.4	791.2	0.0	1037.4	0.0	4.4	8.8	39.6	0.0	13.2	149.5	13.2	149.5
840830	840	20	MIC	E3.4	10.2	30.5	0.81	158.0	772.8	8.6	1292.6	1.2	17.3	0.0	54.3	7.4	2.5	63.0	21.0	196.3
840925	1637	20	MIC	F4.2	9.5	30.6	0.94	102.1	408.5	0.0	1821.3	0.0	17.0	0.0	38.3	25.5	4.3	93.6	15.4	29.8
840308	959	21	MIC	E3.6	7.7	31.8	0.91	1.1	183.5	1.1	290.1	9.9	0.0	0.0	15.4	22.0	0.0	5.5	33.0	89.0
840321	1935	21	MIC	F1.3	0.0	0.0	0.85	329.4	2475.3	0.0	2192.9	0.0	0.0	0.0	367.1	18.8	28.2	56.5	1025.9	574.1
840405	942	21	MIC	E2.7	8.5	27.8	0.86	38.4	354.7	0.0	355.8	0.0	1.2	0.0	127.9	1.2	1.2	18.6	103.5	553.5
840417	1710	21	MIC	F3.4	8.7	28.9	0.86	44.2	1334.9	2.3	1293.0	0.0	7.0	0.0	41.9	18.6	0.0	53.5	200.0	707.0
840502	1427	21	MIC	F1.8	9.1	28.2	0.86	74.4	1311.6	0.0	1330.2	0.0	0.0	0.0	130.2	74.4	93.0	0.0	130.2	827.9
840516	1510	21	MIC	F2.6	10.7	28.4	0.86	232.6	1618.6	0.0	1088.4	0.0	0.0	0.0	372.1	93.0	0.0	65.1	158.1	316.3
840605	1633	21	MIC	F1.4	12.1	28.3	0.86	148.8	4120.9	0.0	911.6	0.0	27.9	0.0	1404.7	0.0	83.7	18.6	0.0	827.9
840621	858	21	MIC	F2.7	11.7	30.8	0.74	27.0	13421.6	16.2	2000.0	27.0	5.4	5.4	1502.7	1270.3	0.0	27.0	54.1	302.7
840705	715	21	MIC	F2.7	12.4	28.8	0.92	73.9	3221.7	8.7	2256.5	0.0	13.0	4.3	360.9	150.4	4.3	13.0	78.3	404.3
840716	1517	21	MIC	F2.0	12.8	29.1	0.94	36.2	634.0	8.5	334.0	0.0	0.0	0.0	85.1	127.7	0.0	51.1	4.3	140.4
840802	803	21	MIC	F3.5	11.5	29.6	0.94	161.7	638.3	0.0	978.7	8.5	0.0	0.0	76.6	17.0	0.0	102.1	8.5	170.2
840815	1549	21	MIC	F2.5	14.6	28.7	0.99	44.4	1155.6	0.0	1406.1	0.0	0.0	0.0	76.8	0.0	16.2	137.4	16.2	88.9
840829	755	21	MIC	E3.3	10.5	31.5	0.76	94.7	1557.9	10.5	1094.7	0.0	10.5	0.0	42.1	10.5	10.5	105.5	42.1	294.7
840826	1105	21	MIC	E2.0	10.0	29.8	0.69	144.9	887.0	0.0	1362.3	0.0	0.0	0.0	11.6	17.4	0.0	127.5	156.5	5.8
840110	1229	34	MIC	E4.0	4.4	4.2	0.99	6.1	128.3	1.0	73.7	0.0	0.0	0.0	14.1	0.0	1.0	0.0	2.0	0.0
840307	1545	34	MIC	E2.5	3.9	1.8	0.69	10.1	149.3	0.0	50.7	2.9	2.9	1.4	13.0	1.4	1.4	4.3	15.9	0.0
840306	920	34	MIC	E3.7	4.6	6.0	0.86	2.3	193.0	1.2	68.6	0.0	0.0	1.2	9.3	0.0	0.0	1.2	4.7	7.0
840405	835	34	MIC	E3.2	6.5	2.5	0.88	1.1	155.7	0.0	113.6	0.0	0.0	0.0	23.9	0.0	0.0	2.3	23.9	48.9
840416	1812	34	MIC	E4.1	7.3	5.1	0.89	197.8	388.8	0.0	436.0	0.0	0.0	2.2	11.2	4.5	0.0	2.2	29.2	101.1

6. EGG MYSI	CLAD	ISOP	I. LA	BVALV	CHAE	EUP	CUMA	D. ZO	P. CO	POLY	E. LAR	MEDU	B. CY	TENA	SIPH	HYDR	TANA
0.0	0.0	1.0	0.0	0.0	6.7	0.0	0.0	0.0	1.0	4.8	5.7	1.0	0.0	0.0	0.0	0.0	1.0
1.2	0.0	3.7	0.0	0.0	1.2	0.0	1.2	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.2	0.0	7.1	0.0	0.0	22.4	0.0	0.0	0.0	9.4	0.0	70.6	29.4	0.0	0.0	0.0	0.0	9.4
4.0	0.0	16.2	8.1	0.0	0.0	0.0	0.0	0.0	4.0	0.0	36.4	0.0	0.0	0.0	0.0	8.1	0.0
27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	8.3	0.0	0.0	0.0	8.3	8.3	0.0
20.8	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	16.7	0.0	33.3	4.2	29.2	0.0	0.0	0.0	0.0
8.1	0.0	0.0	0.0	0.0	0.0	8.1	0.0	0.0	16.2	0.0	80.8	525.3	0.0	0.0	0.0	8.1	0.0
27.3	0.0	168.2	0.0	0.0	18.2	0.0	0.0	0.0	22.7	0.0	54.5	13.6	4.5	0.0	0.0	0.0	0.0
104.5	0.0	21.3	1.1	0.0	3.4	1.1	3.4	0.0	5.6	0.0	151.7	44.9	4.5	0.0	0.0	1.1	1.1
151.0	0.0	0.0	0.0	0.0	146.9	0.0	4.1	0.0	9.2	0.0	61.2	12.2	0.0	0.0	28.6	8.2	0.0
47.9	0.0	6.8	0.0	0.0	20.5	0.0	0.0	0.0	6.8	0.0	68.4	0.0	6.8	0.0	13.7	0.0	0.0
32.3	0.0	6.5	6.5	0.0	174.2	0.0	12.9	0.0	6.5	0.0	32.3	25.8	7.3	0.0	4.0	0.0	0.0
44.0	0.0	13.2	0.0	0.0	189.0	0.0	0.0	0.0	4.4	22.0	0.0	48.4	0.0	0.0	0.0	0.0	0.0
97.5	0.0	9.9	2.5	0.0	71.6	0.0	0.0	0.0	8.6	64.2	25.9	3.7	0.0	0.0	4.9	0.0	0.0
4.3	0.0	0.0	1.1	0.0	42.6	0.0	0.0	0.0	0.0	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.2	0.0	5.5	2.2	0.0	0.0	1.1	1.1	0.0	1.1	0.0	16.5	0.0	0.0	0.0	0.0	1.1	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.6	0.0	0.0	9.4	0.0	0.0	0.0	0.0
8.1	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	29.1	0.0	14.0	2.3	0.0	0.0	2.3	0.0	0.0
11.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	9.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0
18.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	0.0	27.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	9.3	297.7	0.0	55.8	0.0	9.3	9.3	0.0
102.3	0.0	18.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.6	0.0	0.0	0.0	0.0	0.0	9.3
800.0	0.0	27.0	0.0	0.0	0.0	5.4	0.0	0.0	5.4	124.3	54.1	0.0	0.0	0.0	0.0	0.0	0.0
473.9	0.0	13.0	4.3	0.0	52.2	0.0	0.0	8.7	0.0	113.0	30.4	3.3	0.0	34.8	0.0	0.0	0.0
314.9	0.0	4.3	0.0	2.1	17.0	0.0	0.0	2.1	0.0	14.9	14.9	12.6	0.0	0.0	0.0	2.1	0.0
140.4	0.0	34.0	8.5	0.0	153.2	0.0	0.0	8.5	8.5	76.6	68.1	51.1	0.0	34.0	0.0	0.0	0.0
56.6	0.0	0.0	4.0	0.0	206.1	0.0	0.0	0.0	0.0	12.1	4.0	16.2	0.0	0.0	0.0	0.0	0.0
42.1	0.0	0.0	0.0	0.0	63.2	0.0	0.0	0.0	0.0	10.5	31.6	10.5	0.0	0.0	10.5	0.0	0.0
11.6	0.0	0.0	11.6	0.0	34.8	0.0	0.0	5.8	0.0	17.4	0.0	23.2	0.0	0.0	0.0	0.0	0.0
0.0	0.0	72.7	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.4	0.0	40.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	8.1	1.2	0.0	0.0	0.0	1.2	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.7	0.0	4.5	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.2	0.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	2.2	0.0	0.0	0.0	4.5	0.0	0.0

DATE	TIME	STN	STYPE	TIDE	TBP	SAL	VOL	HARP	CHAUP	NBHA	CAL	WORM	OST	ACAR	EGG	TUNI	AMP	GAST	ECTO	BNAUP
840504	822	34	MIC	E2,7	8.6	2.1	0.88	195.5	622.7	4.5	468.2	0.0	0.0	0.0	40.9	9.1	4.5	0.0	13.6	340.9
840515	1719	34	MIC	E4,1	9.6	6.2	0.97	57.7	6655.7	0.0	2111.3	0.0	8.2	0.0	123.7	296.9	0.0	33.0	24.7	610.3
840606	803	34	MIC	F3,0	11.4	6.2	0.75	5.3	4188.0	2.7	1426.7	12.0	2.7	0.0	485.3	213.3	0.0	8.0	5.3	1318.7
840621	948	34	MIC	F2,8	14.8	3.9	0.88	54.5	13136.4	9.1	3900.0	0.0	9.1	0.0	1363.6	1609.1	0.0	36.4	45.5	1754.5
840705	837	34	MIC	F3,0	13.4	2.9	0.88	2.3	950.0	0.0	730.7	0.0	0.0	0.0	39.5	5.7	0.0	4.5	52.3	1460.2
840718	1707	34	MIC	F2,6	10.5	30.1	0.93	17.2	1152.7	8.6	1023.7	0.0	0.0	0.0	137.6	318.3	0.0	163.4	8.6	1126.9
840802	850	34	MIC	E3,4	15.9	3.7	1.10	11.8	63.6	0.0	91.8	0.0	0.0	0.0	8.2	0.0	1.8	10.9	0.9	30.0
840816	756	34	MIC	E3,3	15.5	3.0	0.83	4.8	83.1	0.0	78.3	2.4	0.0	3.6	6.0	0.0	1.2	1.2	4.8	56.6
840830	857	34	MIC	E3,3	14.2	7.4	0.77	27.3	175.3	0.0	254.5	1.3	0.0	3.9	0.0	0.0	1.3	11.7	3.9	20.8
840925	1622	34	MIC	F4,1	13.1	12.2	0.89	5.6	102.2	1.1	284.3	1.1	1.1	0.0	0.0	0.0	0.0	15.7	74.2	61.8

G.EGG	MYSI	CLAD	ISOP	I.LA	BVALV	CHAE	EUP	CUMA	D.ZO	P.CO	POLY	E.LAR	MEDU	B.CY	TENA	SIPH	HYDR	TANA
36.4	0.0	336.4	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0
8.2	0.0	239.2	0.0	0.0	0.0	24.7	8.2	0.0	0.0	0.0	0.0	33.0	24.7	0.0	0.0	0.0	0.0	0.0
41.3	0.0	234.7	2.7	1.3	1.3	0.0	1.3	0.0	4.0	0.0	0.0	41.3	1.3	0.0	0.0	0.0	0.0	0.0
509.1	0.0	163.6	0.0	0.0	54.5	0.0	27.3	0.0	0.0	0.0	0.0	236.4	18.2	45.5	0.0	0.0	0.0	0.0
15.9	0.0	22.7	0.0	0.0	22.7	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
137.6	0.0	0.0	0.0	0.0	51.6	0.0	0.0	0.0	0.0	0.0	0.0	68.8	8.6	8.6	0.0	17.2	0.0	0.0
3.6	0.0	92.7	0.0	0.0	10.9	0.0	0.0	0.0	0.9	0.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.4	0.0	56.6	2.4	0.0	4.8	0.0	0.0	0.0	1.2	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.4	0.0	32.5	2.6	0.0	16.9	0.0	0.0	0.0	0.0	0.0	6.5	0.0	1.3	0.0	0.0	0.0	0.0	0.0
0.0	0.0	3.4	1.1	0.0	1.1	0.0	1.1	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 15. Marine micro net numbers M-3

DATE	TIME	STN	STYRE	TIDE	TEMP	SAL	VOL	HARP	CHAMP	NEMA	CAL	WORN	CST	ACAR	EGG	TUNI	AMP	QAST	ECTO	BNAUP
840110	1250	27	MIC	E3.8	7.9	30.4	0.82	13.4	158.5	0.0	424.4	0.0	8.5	0.0	182.9	1.2	1.2	14.6	28.0	2.4
840207	1400	27	MIC	E2.9	7.7	32.3	0.99	12.1	1862.6	1.0	1128.3	5.1	8.1	4.0	88.9	9.1	0.0	40.4	96.0	1.0
840308	936	27	MIC	E3.7	7.7	31.7	0.96	3.1	338.4	0.0	603.1	4.2	0.0	1.0	41.7	25.0	0.0	15.6	46.9	129.2
840321	1345	27	MIC	E1.5	9.0	0.0	0.87	13.8	3381.7	0.0	1641.4	18.4	0.0	0.0	717.2	64.4	13.8	32.2	308.0	225.3
840408	908	27	MIC	E3.0	8.0	27.7	0.99	1.0	151.5	0.0	232.3	0.0	0.0	0.0	26.3	2.0	0.0	8.1	40.4	89.9
840417	1321	27	MIC	F1.0	8.5	29.3	0.96	8.3	2225.0	0.0	2325.0	0.0	0.0	0.0	66.7	41.7	0.0	75.0	175.0	300.0
840502	1303	27	MIC	F1.0	8.9	28.7	0.96	0.0	3583.3	0.0	7633.3	0.0	0.0	0.0	850.0	83.3	0.0	16.7	100.0	366.7
840516	1318	27	MIC	F1.4	9.9	28.8	0.96	25.0	7591.7	0.0	3928.3	8.3	0.0	8.3	1441.7	475.0	16.7	16.7	66.7	508.3
840605	1457	27	MIC	E1.0	10.2	29.4	0.99	12.1	16452.5	0.0	5523.2	0.0	4.0	0.0	4809.1	1046.5	8.1	20.2	16.2	868.7
840621	1024	27	MIC	E1.8	10.9	31.1	0.96	0.0	7900.0	0.0	1675.0	8.3	0.0	0.0	1125.0	1286.7	0.0	0.0	41.7	216.7
840704	1507	27	MIC	F1.5	13.5	28.0	1.12	0.0	5339.7	0.0	5514.3	7.1	0.0	0.0	192.9	728.6	0.0	14.3	250.0	300.0
840718	1312	27	MIC	F1.6	13.5	29.6	0.87	0.0	1029.9	0.0	1871.3	0.0	0.0	0.0	275.9	505.7	0.0	18.4	0.0	349.4
840801	1220	27	MIC	E1.7	12.3	29.7	1.03	31.1	2143.7	0.0	7262.1	0.0	0.0	0.0	132.0	186.4	0.0	0.0	62.1	256.3
840815	1504	27	MIC	E1.6	13.2	30.0	1.06	11.3	1581.1	0.0	3535.8	0.0	0.0	0.0	73.5	0.0	11.3	86.8	45.3	86.8
840829	837	27	MIC	E3.1	10.2	31.7	0.82	87.8	1561.0	0.0	3414.6	0.0	0.0	0.0	87.8	29.3	0.0	146.3	39.0	302.4
840926	1233	27	MIC	F2.1	9.5	30.9	0.95	101.1	454.7	4.2	1507.4	4.2	0.0	0.0	29.3	0.0	0.0	67.4	84.2	16.8
840404	950	31	MIC	E2.7	8.4	27.4	0.95	33.7	1608.4	0.0	1734.7	0.0	33.7	0.0	530.5	58.9	0.0	42.1	320.0	494.7
840417	853	31	MIC	E2.6	8.6	29.2	0.97	16.5	251.5	0.0	495.0	0.0	0.0	0.0	24.7	20.6	0.0	24.7	136.1	362.9
840502	925	31	MIC	E1.8	8.5	28.7	0.97	4.1	45.4	0.0	347.4	0.0	0.0	0.0	17.5	2.1	0.0	4.1	11.3	96.9
840516	757	31	MIC	E1.8	9.2	28.3	0.95	50.5	5658.9	0.0	2568.4	0.0	0.0	0.0	505.3	277.9	0.0	92.6	67.4	724.2
840605	818	31	MIC	E3.3	9.5	29.6	0.99	10.1	4038.4	0.0	1775.8	0.0	0.0	0.0	559.6	130.3	0.0	1.0	8.1	276.8
840619	859	31	MIC	E2.8	10.7	31.3	1.16	10.3	851.7	0.0	1396.6	3.4	0.0	3.4	931.0	79.3	3.4	3.4	3.4	89.7
840704	949	31	MIC	E2.9	10.7	30.7	1.02	3.9	2607.8	11.8	1890.2	0.0	0.0	15.7	164.7	219.6	0.0	11.8	160.8	709.8
840718	905	31	MIC	E2.6	11.2	29.4	0.92	3.3	860.9	1.1	743.5	2.2	1.1	2.2	65.2	187.0	0.0	12.0	18.5	182.6
840801	932	31	MIC	E2.8	10.8	30.4	0.97	8.2	1492.8	0.0	2861.9	0.0	0.0	0.0	189.7	90.7	0.0	66.0	24.7	66.0
840815	842	31	MIC	E2.9	10.5	31.5	0.95	3.2	834.7	0.0	782.1	0.0	0.0	1.1	71.6	2.1	0.0	41.1	41.1	136.8
840829	1032	31	MIC	E2.3	10.3	31.7	0.79	35.4	1412.7	0.0	658.2	10.1	0.0	0.0	70.9	25.3	0.0	81.0	70.9	202.5

G,EG	GLAD	ISOP	I,LA	BVALY	ONE	EUP	CUMA	D,ZO	FISH	P,OO	POLY	E,LAR	MEDUS	TENA	SIPH	HYDR
0.0	8.5	0.0	0.0	1.2	0.0	0.0	0.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0
0.0	0.0	4.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	4.0	0.0	0.0	0.0	0.0
0.0	5.2	1.0	0.0	12.5	0.0	0.0	0.0	46.9	0.0	0.0	5.2	28.1	0.0	0.0	0.0	0.0
4.6	0.0	4.6	0.0	0.0	0.0	9.2	0.0	4.6	0.0	0.0	27.6	55.2	0.0	0.0	0.0	0.0
1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	2.0	0.0	0.0	0.0	0.0
16.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	16.7	8.3	0.0	8.3	0.0
0.0	16.7	0.0	0.0	0.0	0.0	0.0	0.0	33.3	16.7	0.0	33.3	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0	16.7	0.0	0.0	41.7	350.0	8.3	0.0	0.0	0.0
16.2	0.0	0.0	0.0	0.0	4.0	0.0	0.0	16.2	0.0	0.0	36.4	20.2	0.0	0.0	0.0	0.0
25.0	8.3	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	108.3	166.7	8.3	0.0	0.0	0.0
0.0	0.0	0.0	0.0	107.1	0.0	7.1	0.0	7.1	0.0	0.0	307.1	78.6	14.3	64.3	0.0	0.0
27.6	0.0	0.0	0.0	55.2	0.0	0.0	0.0	9.2	0.0	0.0	0.0	27.6	27.6	18.4	0.0	0.0
38.8	0.0	0.0	0.0	691.3	0.0	31.1	0.0	0.0	1.0	7.8	101.0	287.4	163.1	77.7	0.0	0.0
11.3	3.8	0.0	0.0	222.6	0.0	3.8	0.0	0.0	0.9	3.8	15.1	26.4	41.5	3.8	0.0	0.0
39.0	0.0	9.8	0.0	224.4	0.0	0.0	0.0	0.0	0.0	0.0	19.5	39.0	0.0	0.0	0.0	0.0
0.0	0.0	8.4	0.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	4.2
50.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	0.0	0.0	0.0	92.6	0.0	0.0	0.0	0.0
4.1	4.1	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1	0.0	0.0	4.1	8.2
7.2	0.0	0.0	0.0	1.0	0.0	2.1	0.0	0.0	0.0	0.0	1.0	4.1	0.0	0.0	0.0	0.0
16.8	25.3	0.0	0.0	0.0	33.7	8.4	0.0	9.5	0.0	8.4	16.8	345.3	8.4	0.0	0.0	0.0
9.1	0.0	0.0	0.0	0.0	0.0	3.0	2.0	2.0	0.0	0.0	8.1	5.1	2.0	0.0	0.0	0.0
13.8	0.0	0.0	0.0	0.0	0.0	24.1	0.0	0.0	0.0	0.0	34.5	65.5	0.0	0.0	0.0	0.0
7.8	51.0	0.0	0.0	58.8	0.0	3.9	0.0	0.0	0.0	0.0	70.6	43.1	0.0	105.9	11.8	0.0
8.7	1.1	0.0	0.0	27.2	0.0	0.0	0.0	0.0	0.0	0.0	21.7	31.5	1.1	16.3	0.0	0.0
16.5	0.0	0.0	0.0	140.2	1.0	8.2	0.0	0.0	0.0	0.0	41.2	132.0	57.7	49.5	0.0	0.0
1.1	2.1	1.1	0.0	127.4	1.1	0.0	0.0	0.0	0.0	0.0	13.7	8.4	8.4	1.1	0.0	0.0
0.0	0.0	0.0	0.0	121.5	0.0	0.0	0.0	0.0	0.0	0.0	15.2	55.7	5.1	0.0	0.0	0.0

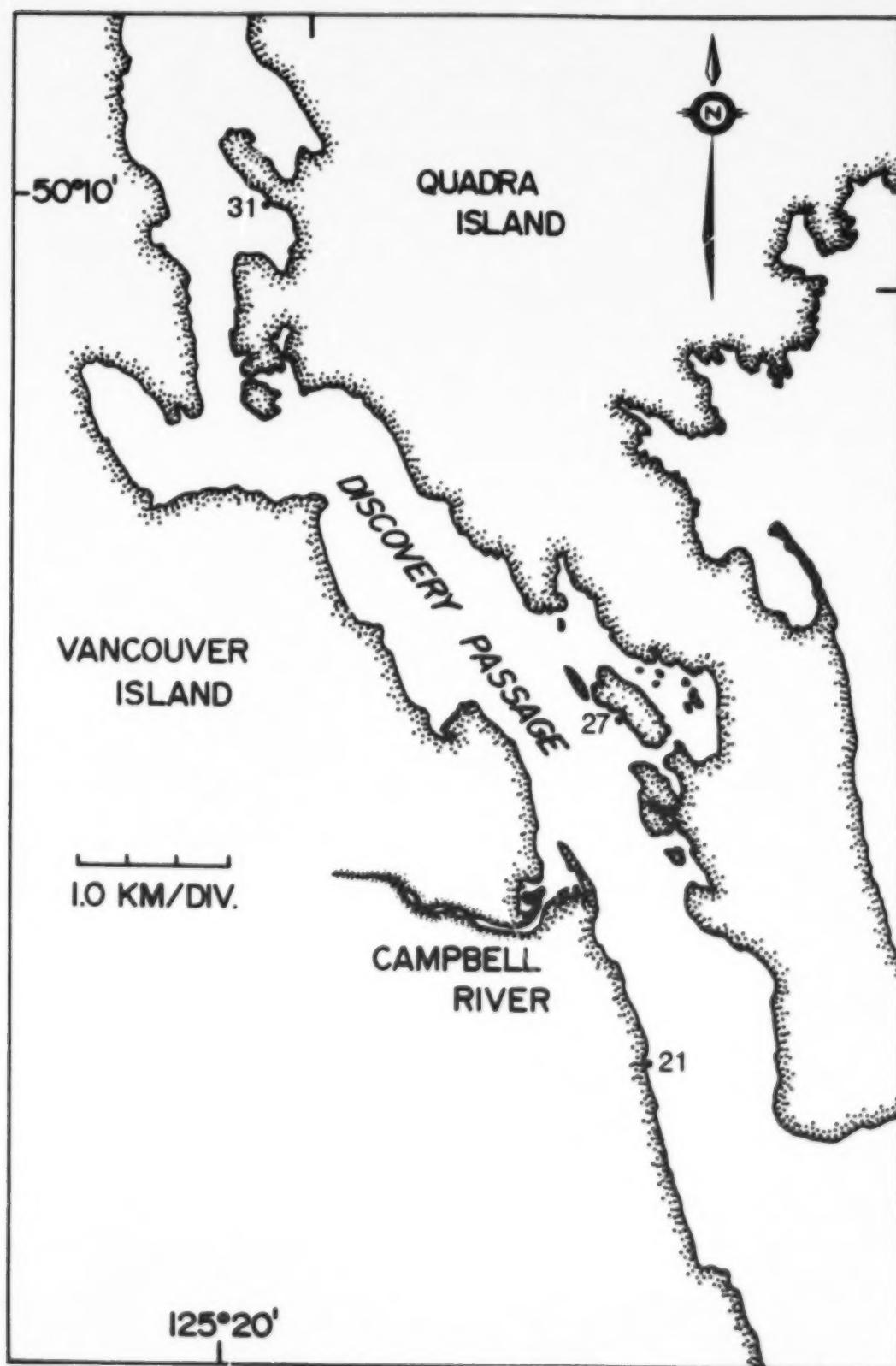


Figure 1. Station locations in Discovery Passage



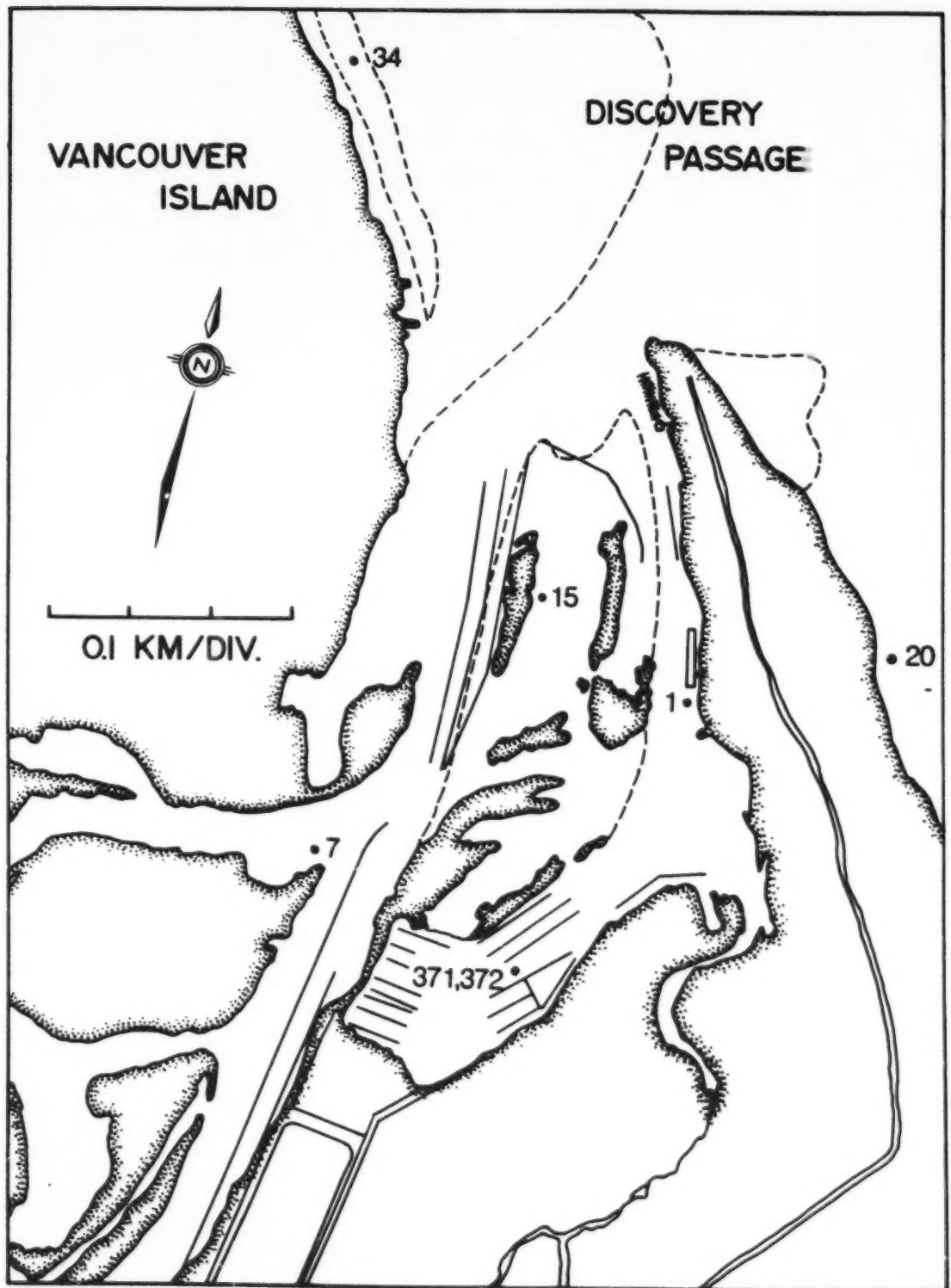


Figure 2. Station locations in Campbell River Estuary and adjacent waters